



JESSE BROWN VA MEDICAL CENTER

ROOFING REPLACEMENT - PHASES 09, 10, 17, 26, 35, 44 AND 50

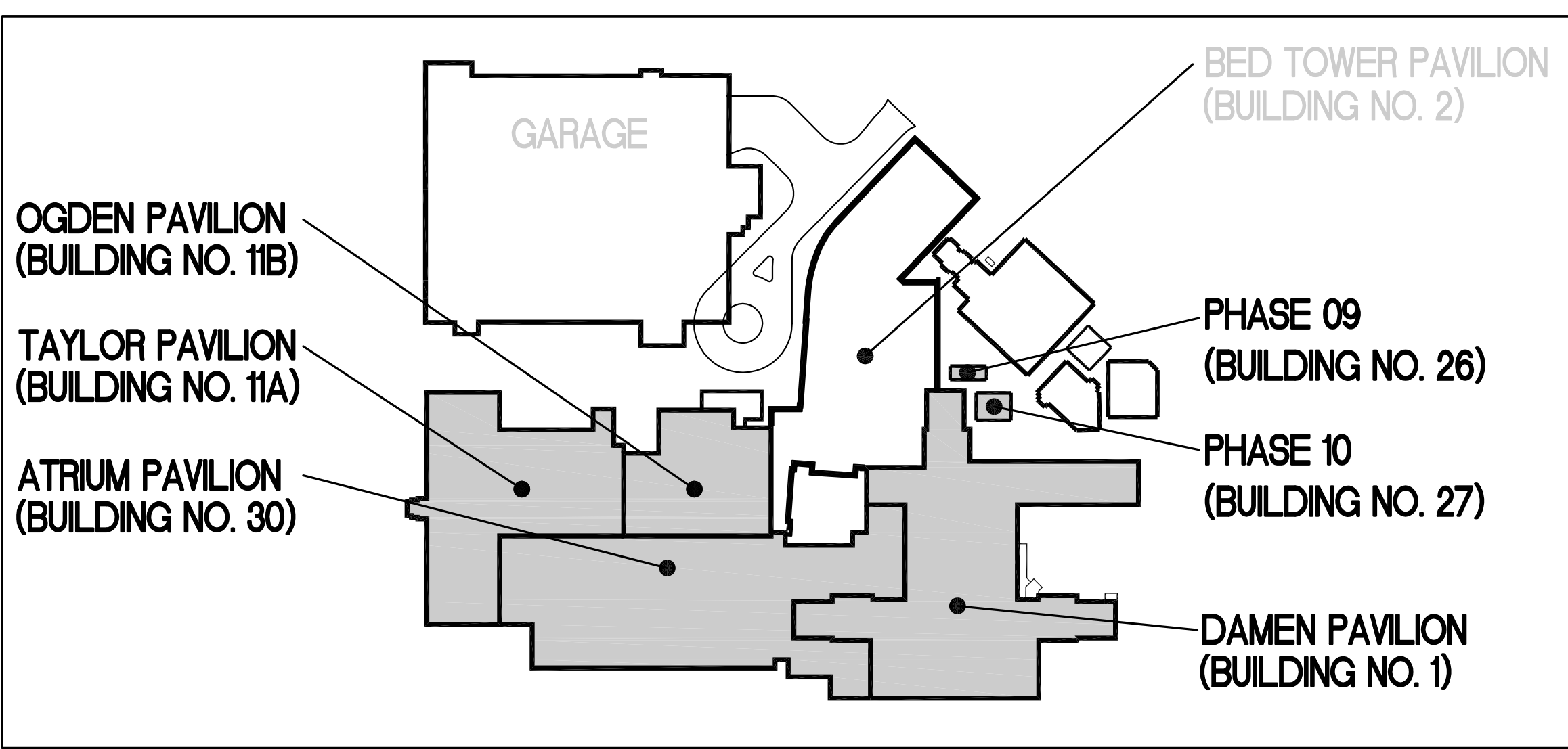


SITE LOCATION MAP



820 S. DAMEN AVENUE,
CHICAGO, IL 60612

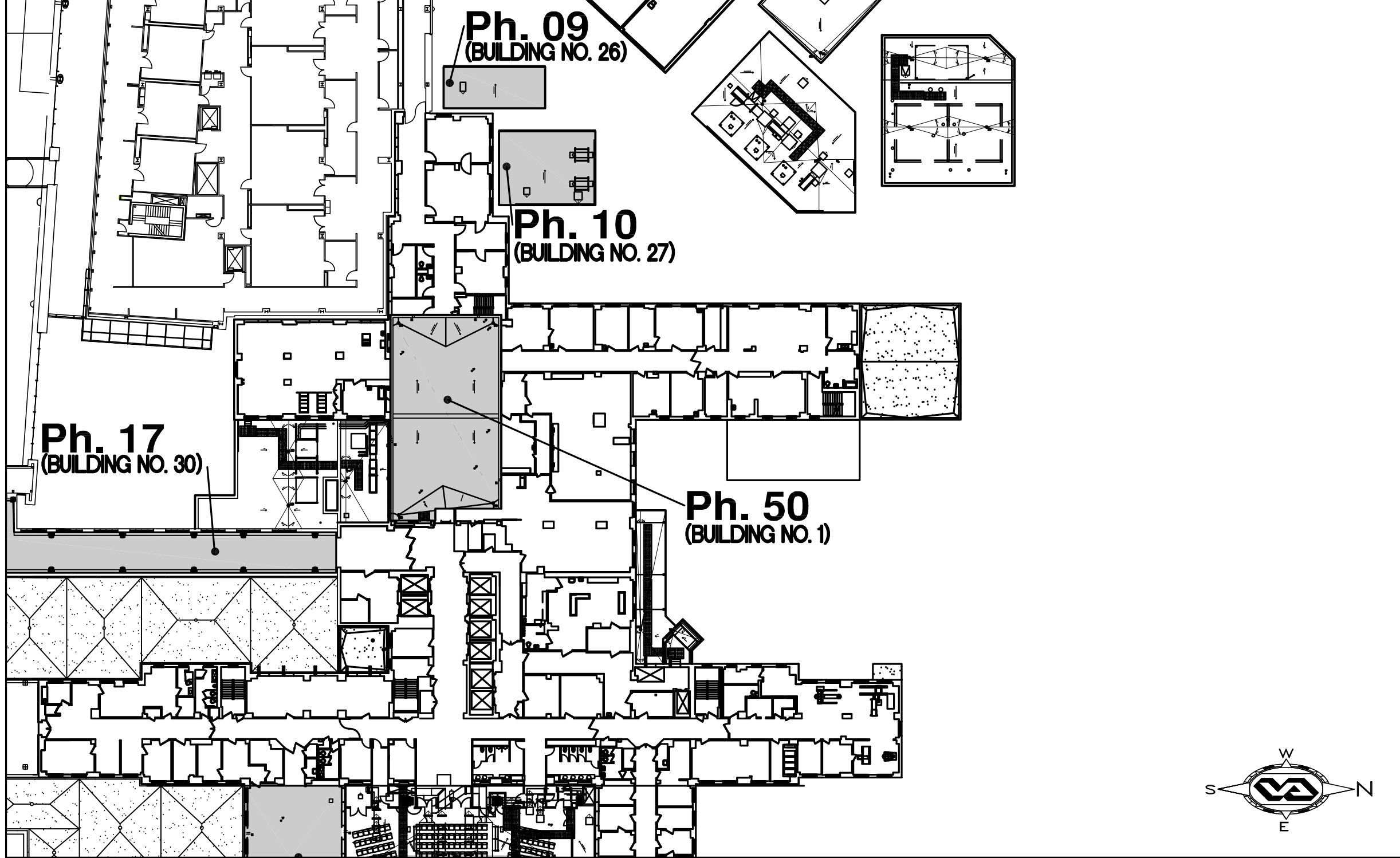
JESSE BROWN VA MEDICAL CENTER CAMPUS PLAN



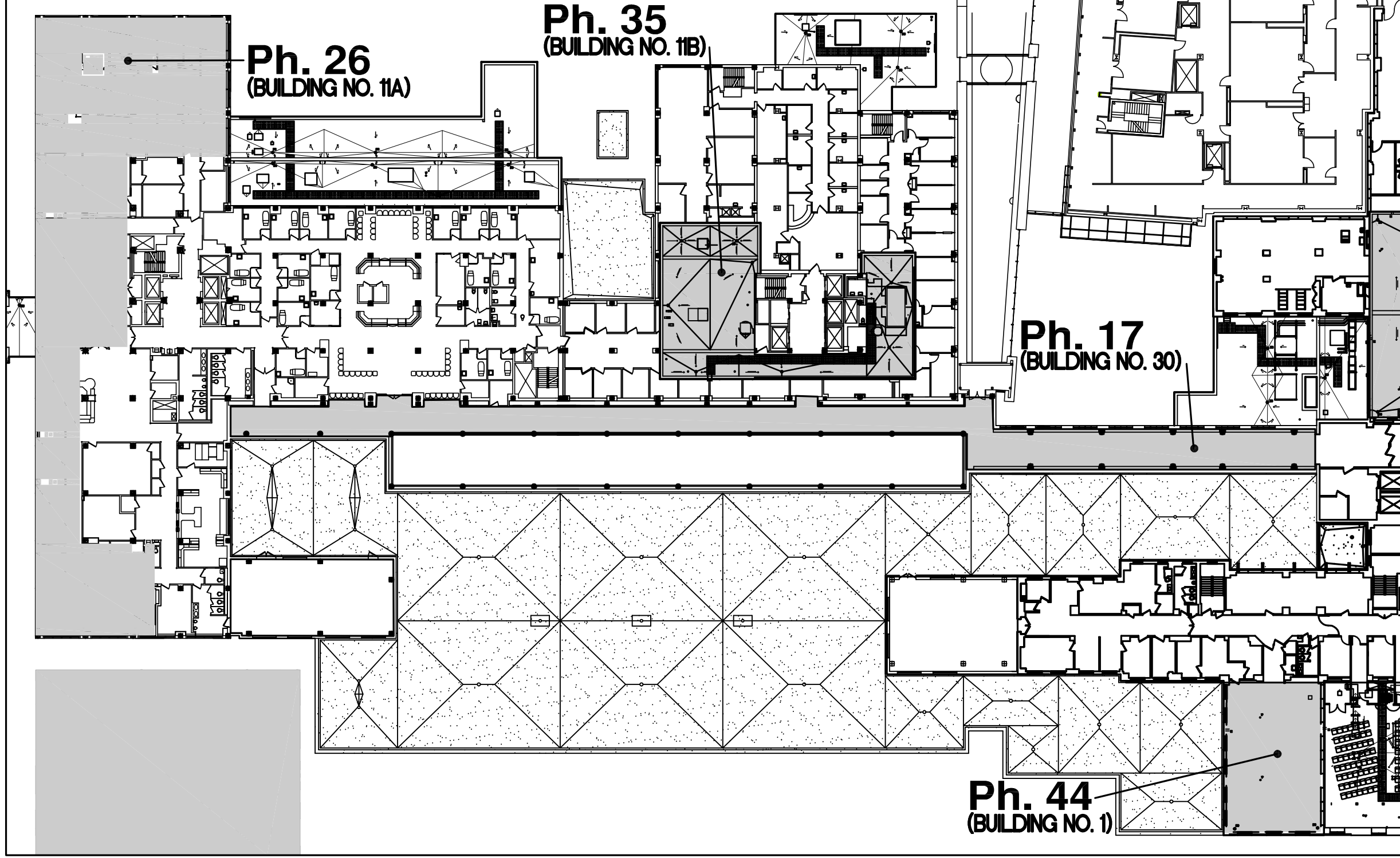
LIST OF DRAWINGS SHEETS

G1.00	TITLE SHEET, SITE LOCATION AND ROOF KEY PLANS, AND LIST OF DRAWING SHEETS
G2.00	ESTIMATED QUANTITIES OF WORK
A1.09	PHASE 09 PARTIAL ROOF PLAN, NOTES, AND ROOF DETAILS
A2.09	PHASE 09 ROOF DETAILS
A1.10	PHASE 10 PARTIAL ROOF PLAN, NOTES, AND ROOF DETAILS
A2.10	PHASE 10 ROOF DETAILS
A1.17	PHASE 17 PARTIAL ROOF PLAN AND NOTES
A2.17	PHASE 17 ROOF DETAILS
A3.17	PHASE 17 ROOF DETAILS
A1.26	PHASE 26 PARTIAL ROOF PLAN, NOTES, AND ROOF DETAILS
A2.26	PHASE 26 ROOF DETAILS
A3.26	PHASE 26 ROOF DETAILS
A1.35	PHASE 35 PARTIAL ROOF PLAN, NOTES, AND ROOF DETAILS
A2.35	PHASE 35 ROOF DETAILS
A1.44	PHASE 44 PARTIAL ROOF PLAN, NOTES, AND ROOF DETAILS
A2.44	PHASE 44 ROOF DETAILS
A1.50	PHASE 50 PARTIAL ROOF PLAN AND NOTES
A2.50	PHASE 50 ROOF DETAILS
A3.50	PHASE 50 ROOF DETAILS

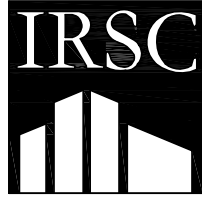

ROOF KEY PLAN



ROOF KEY PLAN



BIDDING DOCUMENTS

CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Construction Project Number		Office of Construction and Facilities Management Department of Veterans Affairs	
 Interstate Roof Systems Consultants, Inc. 1275 Davis Road, Suite 132 Elgin, IL 60123 Tel (847) 695-1460 Fax (847) 695-1462 www.irscinc.com		Design Project Number 537-09-164		 LEGAT ARCHITECTS sustainability performance design 651 West Washington Blvd. - Suite One Chicago, Illinois 60661-2122 Tel 312.258.9595 Fax 312.258.1555 www.legat.com		TITLE SHEET, SITE LOCATION AND ROOF KEY PLANS, AND LIST OF DRAWING SHEETS		537-12-135			
BIDDING DOCUMENTS 95% DESIGN DOCUMENTS Revisions		12/12/12 06/21/12 Date		Approved Project Director VAPAC'S PLANNING AND ENGINEERING		Location CHICAGO IL		Building Number: 1, 11A, 11B, 26, 27, 30			
				Date 12/12/12		Checked TK		Drawn BOT			
								Drawing Number G1.00		Dwg. 1 of 19	



JESSE BROWN VA MEDICAL CENTER

ROOFING REPLACEMENT - PHASES 09, 10, 17, 26, 35, 44 AND 50



ESTIMATED QUANTITIES OF WORK

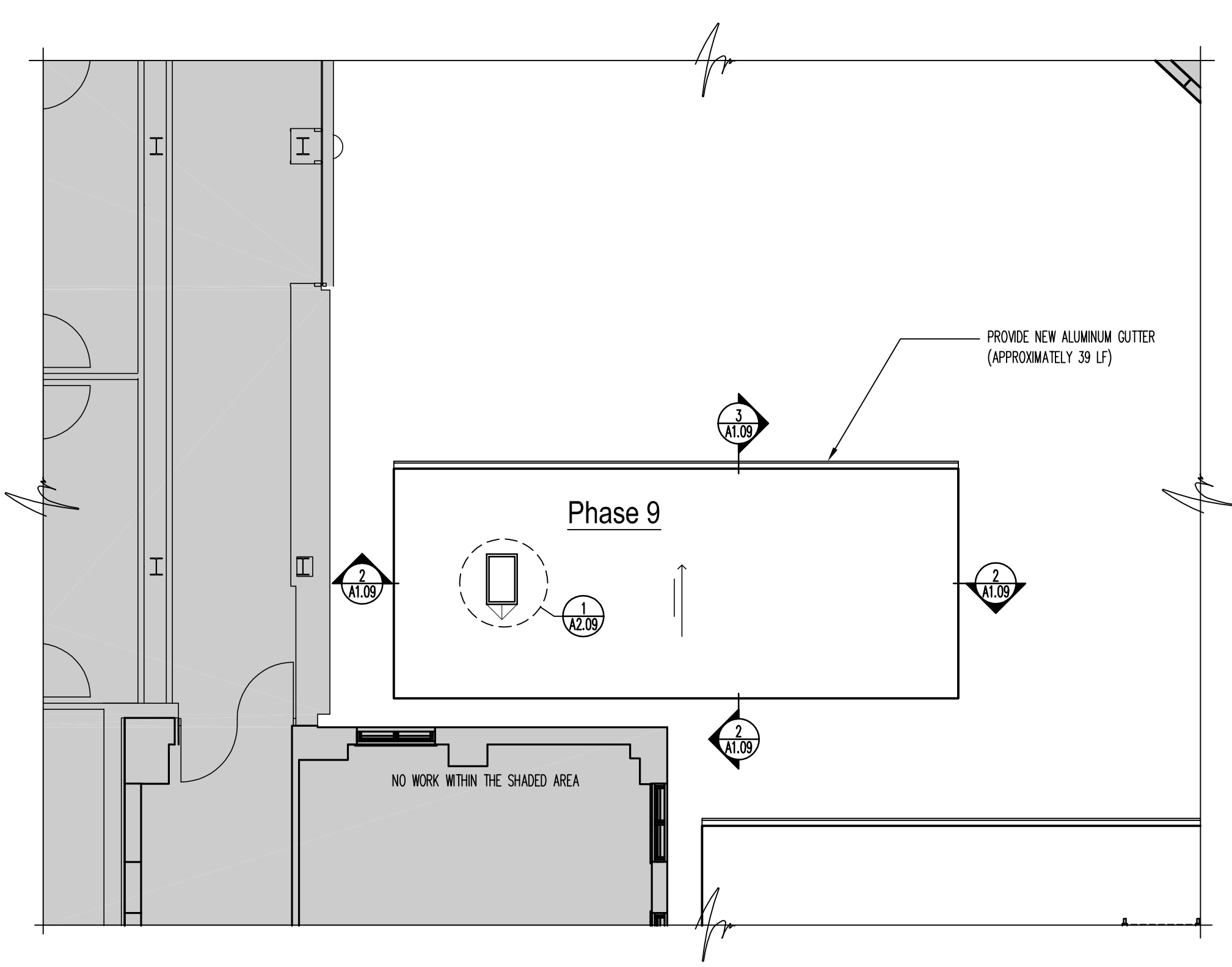
	Scope Items	Unit	Quantities							Total
			Phase 9	Phase 10	Phase 17	Phase 26	Phase 35	Phase 44	Phase 50	
1	Survey of drains and vent pipes	Each	0	0	12	8	17	3	11	51
2	Survey, temporary removal and reinstallation of lightning protection system	Lump Sum	0	1	1	1	1	1	1	1
3	Demolition of existing roofing system to deck (including flashings)	SF	617	1046	6630	9772	3539	2285	3287	27176
4	Demolition of existing guardrail system	LF	0	0	0	16	65	12	0	94
5	Hauling of demolished materials	Lump Sum	1	1	1	1	1	1	1	1
6	Repair of existing concrete or metal deck (2%)	SF	12	21	133	195	71	114	66	612
7	Grinding and tuckpointing of existing masonry	SF	0	0	0	838	592	320	620	2370
8	Replacement of drain head assemblies	Each	0	0	9	6	8	2	4	30
9	Replacement of downspout piping	LF	0	0	138	82	122	31	61	434
10	2-Ply vapor barrier	SF	617	1046	6630	9772	3539	2285	3287	27176
11	Tapered Insulation, including adhesives	SF	617	1046	6630	9772	3539	2285	3287	27176
12	Cover board, including adhesives	SF	617	1046	6630	9772	3539	2285	3287	27176
13	Modified bitumen roofing system (base, interply and cap sheets), including mastics/adhesives	SF	617	1046	6630	9772	3539	2285	3287	27176
14	Walkway pads (3'-0" wide)	LF	0	0	0	339	118	36	70	563
15	Flashing and sheet metal	LF	110	132	1050	714	485	200	310	3000
16	Roof curbs (new)	Each	1	1	0	4	5	0	0	11
17	Roof curbs (existing to be extended)	Each	1	1	0	4	5	0	0	11
18	Stainless steel duct extension	Each	0	0	0	4	0	0	0	4
19	Carpentry (wood blocking and plywood installation)	Lump Sum	1	1	1	1	1	1	1	1
20	New guardrail system	LF	0	55	0	62	114	12	0	244
21	Sanding/grinding of existing steel (equipment supports and hollow metal doors and frames)	Lump Sum	0	0	0	1	1	0	1	1
22	Painting (existing equipment supports and hollow metal doors and frames)	Lump Sum	0	0	0	1	1	0	1	1

QUANTITIES LISTED ABOVE ARE ESTIMATED QUANTITIES ONLY AND MAY NOT IDENTIFY ALL SCOPE ITEMS WITHIN THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT SCOPE AND QUANTITIES PRIOR TO BIDDING. CHANGE ORDERS WILL NOT BE ISSUED FOR WORK IDENTIFIED WITHIN THE DRAWINGS AND SPECIFICATION THAT MAY EXCEED THE SCOPE OR QUANTITIES LISTED ABOVE.

BIDDING DOCUMENTS

<div>CONSULTANTS:</div> <div><div>IRSC</div><div>Interstate Roof Systems Consultants, Inc. 1275 Davis Road, Suite 132 Elgin, IL 60123 Tel (847) 695-1460 Fax (847) 695-1462 www.irscinc.com</div></div>	<div>Design Project Number 537-09-164</div>	<div>ARCHITECT/ENGINEERS:</div> <div><div>LEGAT</div><div>ARCHITECTS</div><div>sustainability performance design</div></div> <div>651 West Washington Blvd. - Suite One Chicago, Illinois 60661-2122 Tel 312.258.9595 Fax 312.258.1555 www.legat.com</div>	<div>Drawing Title ESTIMATED QUANTITIES OF WORK</div> <div>Approved Project Director YAPAHCS PLANNING AND ENGINEERING</div>	<div>Project Title ROOFING REPLACEMENT PHASES 09, 10, 17, 26, 35, 44 AND 50</div> <div>Location CHICAGO IL</div> <div>Date 12/12/12</div> <div>Checked TK</div> <div>Drawn BOT</div>	<div>Construction Project Number 537-12-135</div> <div>Building Number 1, 11A, 11B, 26, 27, 30</div> <div>Drawing Number G2.00</div> <div>Dept. 2 of 19</div>	<div>Office of Construction and Facilities Management</div> <div><div>VA</div><div>Department of Veterans Affairs</div></div>
---	---	--	---	--	---	---

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



1 PARTIAL ROOF PLAN - PHASE 9
1/8" = 1'-0"

ROOF CONSTRUCTION NOTES:

REFER TO THE PROJECT SPECIFICATIONS FOR ACCEPTABLE MATERIALS AND INSTALLATION REQUIREMENTS

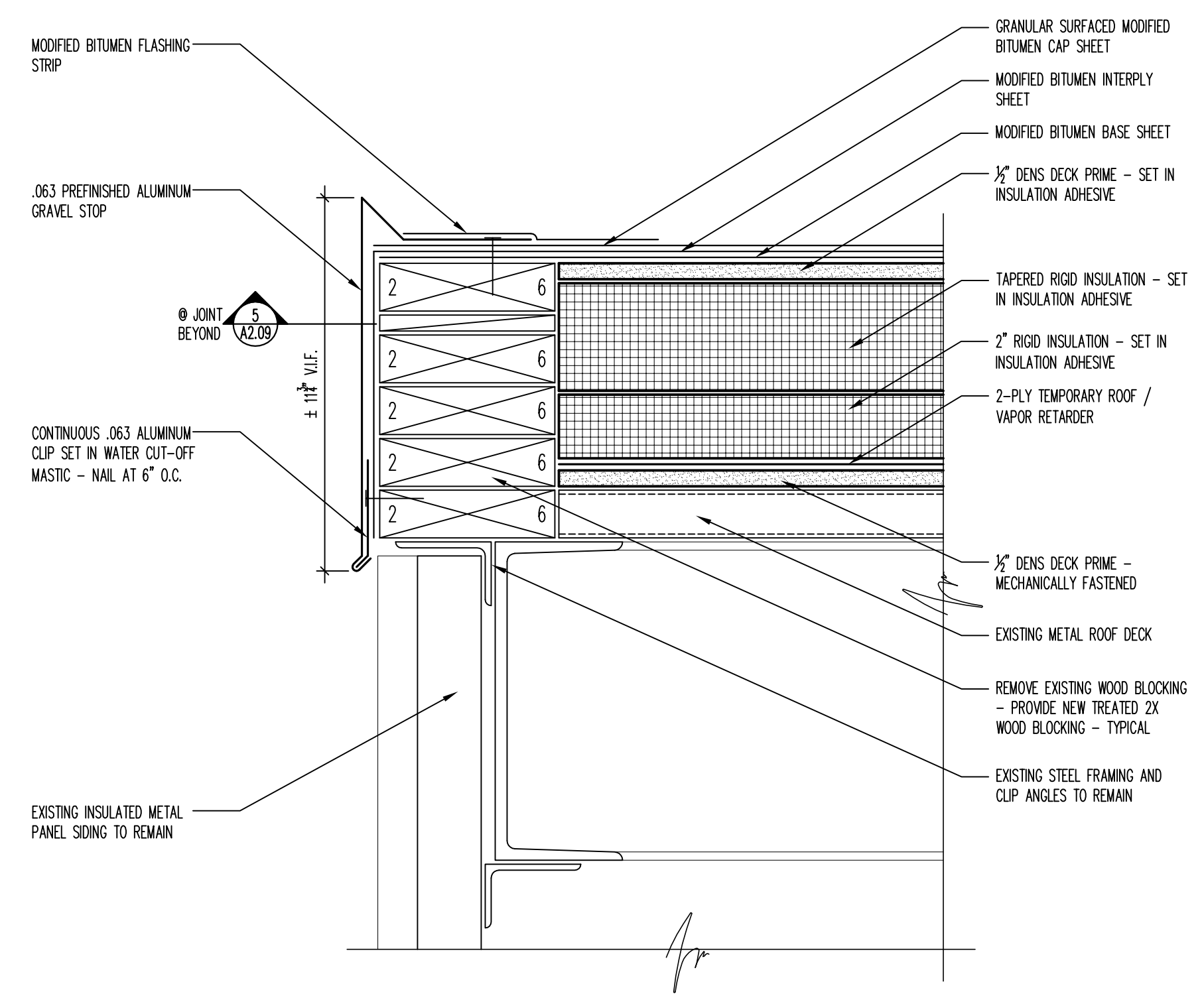
PHASE 09 (+/- 617 SF):

- REMOVE EXISTING ROOFING, FLASHINGS, INSULATION, AND SHEET METAL DOWN TO DECK.
- REMOVE APPROXIMATELY 2% OF THE EXISTING METAL ROOF DECK.
- INSTALL 1/2" DENS DECK PRIME OVER - MECHANICALLY FASTENED.
- INSTALL 2 LAYERS OF MODIFIED BITUMEN TEMPORARY ROOF / VAPOR RETARDER.
- RAISE HVAC CURBS AND PLUMBING VENTS. PROVIDE NEW CURBS WHERE INDICATED.
- INSTALL PERIMETER ROOF EDGE WOOD BLOCKING. ALL WOOD BLOCKING TO HAVE STAGGERED, MITERED AND SCREW FASTENED JOINTS - REFER TO DETAIL 4/A2.09.
- INSTALL RIGID AND TAPERED RIGID INSULATION AND SADDLES MEETING MINIMUM OVERALL AVERAGE R-VALUE OF 25 WITH A MINIMUM R-VALUE AT ANY LOCATION OF 10 - FIRST LAYER TO BE 2" RIGID INSULATION (SET IN INSULATION ADHESIVE) - FOLLOWING LAYERS TO BE TAPERED RIGID INSULATION (SET IN INSULATION ADHESIVE). ALL INSULATION JOINTS, BOTH HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
- INSTALL 1/2" DENS DECK PRIME - SET IN INSULATION ADHESIVE.
- INSTALL MODIFIED BITUMEN BASE SHEET (MINIMUM THICKNESS 80 MIL) - SET IN COLD ADHESIVE.
- INSTALL MODIFIED BITUMEN INTERPLY SHEET (MINIMUM THICKNESS 85 MIL) - SET IN COLD ADHESIVE.
- INSTALL GRANULAR SURFACED MODIFIED BITUMEN CAP SHEET (MINIMUM THICKNESS 130 MIL) - HEAT WELDED.
- INSTALL .063 ALUMINUM COPINGS AND COUNTERFLASHINGS.
- FLASHING NOTES: (THE FOLLOWING NOTES APPLY TO METAL FLASHING CONDITIONS)
 - ALL METAL FLASHING FLANGES ARE TO BE SET IN SEALANT.
 - FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
 - ISOMETRIC DRAWINGS ARE DIAGRAMMATIC.
 - FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
 - ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
 - NON-EXPOSED NAIL FASTENERS TO BE 1-1/2" RING SHANK ROOFING NAILS.
 - NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE 1-1/2" X 3/16" STAINLESS STEEL SCREWS.
 - SCREW FASTENERS INTO MASONRY ARE TO BE 1-1/2" X 3/16" TAPCONS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
 - EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 3/16" STAINLESS STEEL WITH NEOPRENE WASHERS.
 - FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
- UPON COMPLETION OF ROOFING SYSTEM, THE CONTRACTOR SHALL PROVIDE CERTIFICATION THAT THE NEW ROOF SYSTEM MEETS A MINIMUM 1/4" PER FOOT SLOPE AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL WATER TEST THE ROOF TO INSURE PROPER DRAINAGE.

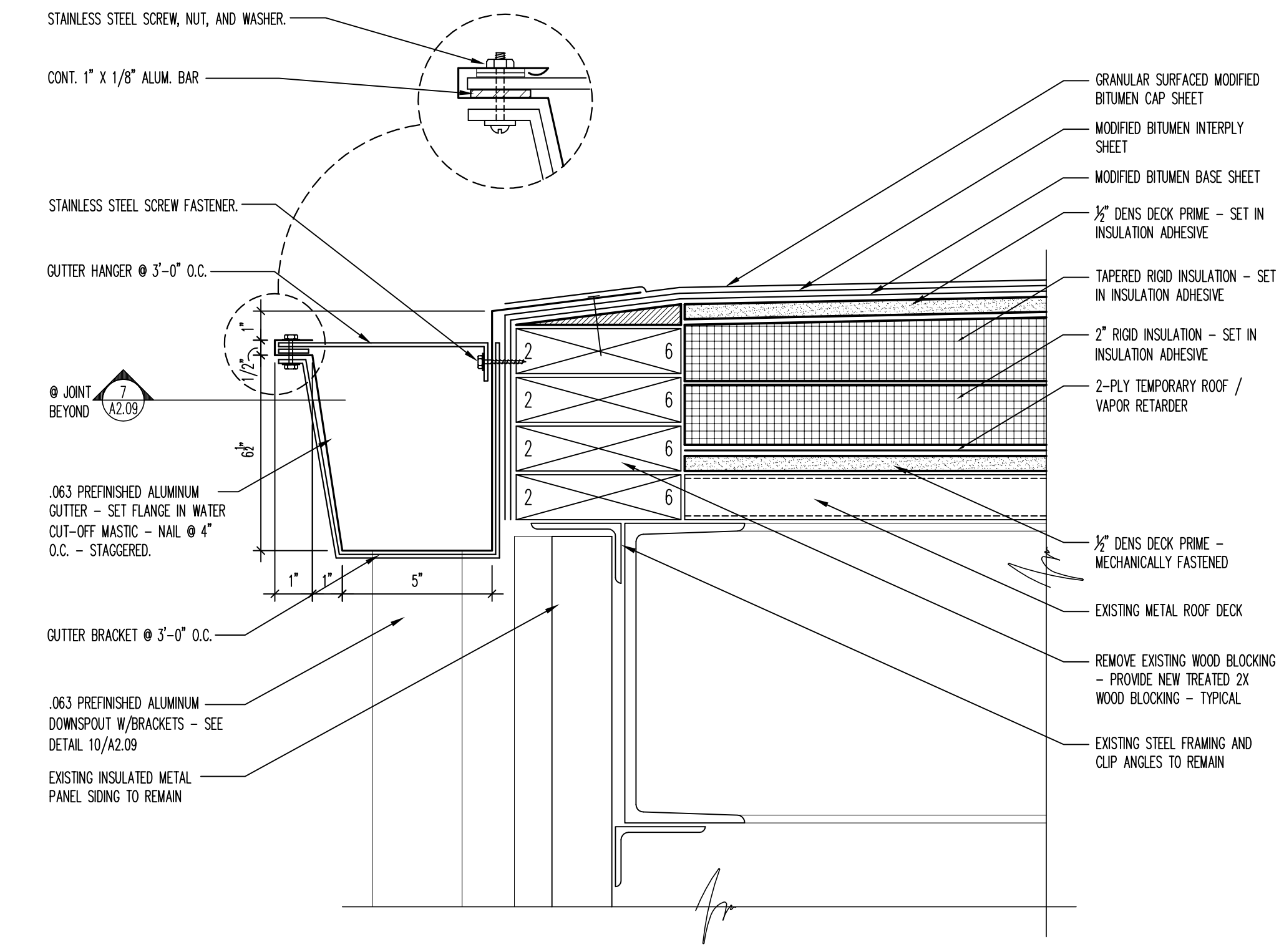
LEGEND	
	AREA OF 1/4"/FT. TAPERED ROOFING SYSTEM.
	HVAC UNIT & ROOF CURB - SEE DETAIL 3/A2.09.
	METAL GRAVEL STOP - SEE DETAILS 5 & 6/A2.09.

GENERAL NOTES:

- EXISTING ROOFING MATERIALS TO BE REMOVED CAREFULLY SO AS NOT TO DAMAGE THE EXISTING ROOF DECK. CONTRACTOR SHALL PROVIDE FOR PATCHING AND REPAIR OF 2% OF THE EXISTING METAL ROOF DECK.
- ALL EXISTING ROOF PENETRATIONS INCLUDING ROOF CURBS AND RAILS, VENT PIPES, GUY WIRE SUPPORTS, ETC., ARE TO BE EXTENDED TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE OR AS RECOMMENDED BY ROOFING MANUFACTURER, WHICHEVER IS GREATER.
- CONTRACTOR SHALL PROVIDE HOIST FOR REMOVAL OF ALL DEMOLISHED MATERIAL FROM THE ROOF AND FOR DELIVERY OF NEW MATERIAL AND EQUIPMENT TO THE ROOF. THE OWNER'S ELEVATORS SHALL BE USED FOR TRANSPORT OF PEOPLE ONLY, AND SHALL NOT BE USED TO TRANSPORT MATERIAL OR EQUIPMENT OF ANY KIND.
- SITE NOTES:
 - REPAIR CONCRETE AREAS DAMAGED DURING CONSTRUCTION.
 - REPAIR BITUMINOUS AREAS DAMAGED DURING CONSTRUCTION.
 - REPAIR ALL LANDSCAPING DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT WINDOWS ADJACENT TO WORK AREA ONE FLOOR BELOW AND TWO FLOORS ABOVE. WINDOWS SHALL BE COVERED WITH PLASTIC FROM EXTERIOR AND SEALED.
- THE OWNER SHALL ABATE ANY DISCOVERED ASBESTOS CONTAINING MATERIAL. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY SUCH DISCOVERED MATERIAL.
- ALL EXISTING AIR INTAKES ADJACENT TO THE WORK AREA SHALL BE COVERED WITH PHOTOCATALYTIC FILTERS OR CARBON BLOCK FILTERS.
- CONTRACTOR SHALL COORDINATE SHUT-DOWN OF ALL HVAC UNITS, ANTENNA, SATELLITE DISHES AND ANY OTHER ROOFTOP EQUIPMENT WITH THE VA.

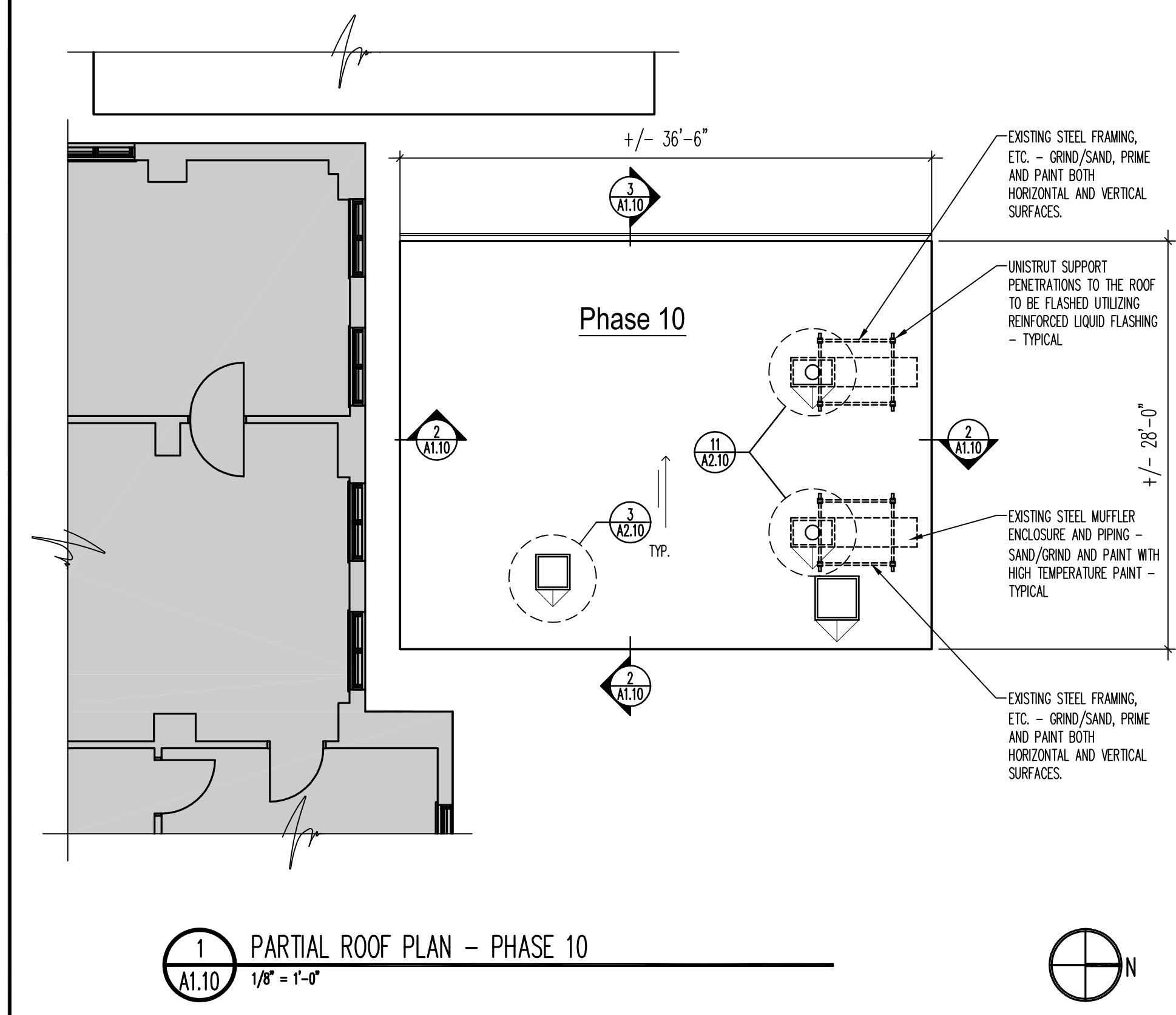


2 ROOF EDGE DETAIL
3" = 1'-0"



3 ROOF EDGE DETAIL
3" = 1'-0"

CONSULTANTS: Interstate Roof Systems Consultants, Inc. 1275 Davis Road, Suite 152 Elgin, IL 60123 Tel (847) 695-1460 Fax (847) 695-1462 www.irscinc.com	Design Project Number 537-09-164	ARCHITECT/ENGINEERS: sustainability performance design 651 West Washington Blvd. - Suite One Chicago, Illinois 60661-2122 Tel 312.258.9595 Fax 312.258.1555 www.legat.com	Drawing Title ROOF PLAN, NOTES, AND ROOF DETAILS Approved Project Director VAPACHS PLANNING AND ENGINEERING	Project Title ROOFING REPLACEMENT PHASE 09 Location CHICAGO Date 12/12/12 Checked TK Drawn BOT	Construction Project Number 537-12-135 Building Number BUILDING NO. 26 Drawing Number A1.09 Dwg. 3 of 19	Office of Construction and Facilities Management Department of Veterans Affairs
---	--	---	---	---	---	---



1 PARTIAL ROOF PLAN - PHASE 10
1/8" = 1'-0"

ROOF CONSTRUCTION NOTES:

REFER TO THE PROJECT SPECIFICATIONS FOR ACCEPTABLE MATERIALS AND INSTALLATION REQUIREMENTS

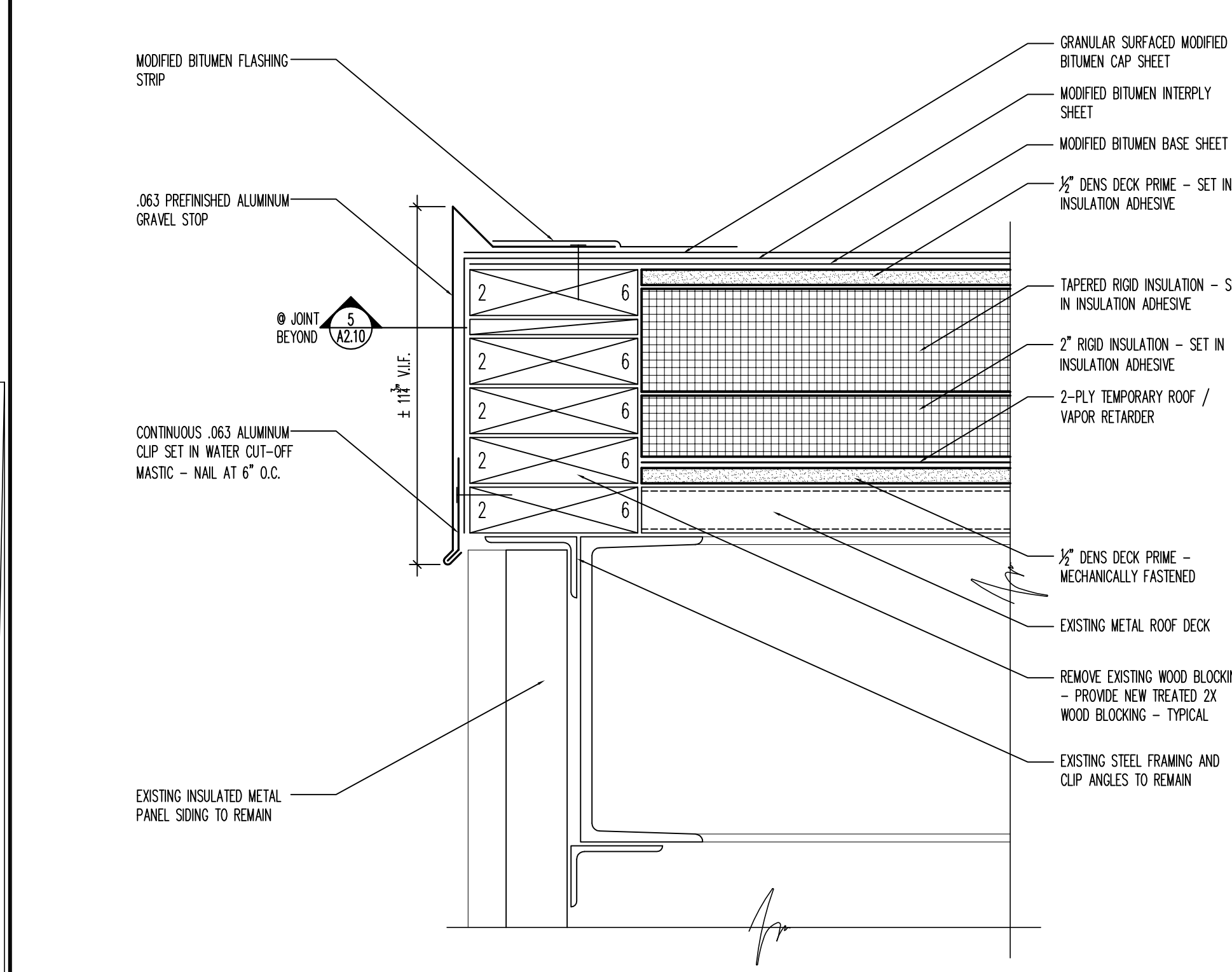
PHASE 10 (+/- 1046 SF):

1. REMOVE EXISTING ROOFING, FLASHINGS, INSULATION, AND SHEET METAL DOWN TO DECK.
2. REMOVE APPROXIMATELY 2% OF THE EXISTING METAL ROOF DECK.
3. INSTALL 1/2" DENS DECK PRIME OVER - MECHANICALLY FASTENED.
4. INSTALL 2 LAYERS OF MODIFIED BITUMEN TEMPORARY ROOF / VAPOR RETARDER.
5. RAISE HVAC CURBS AND PLUMBING VENTS. PROVIDE NEW CURBS WHERE INDICATED.
6. INSTALL PERIMETER ROOF EDGE WOOD BLOCKING. ALL WOOD BLOCKING TO HAVE STAGGERED, MITERED AND SCREW FASTENED JOINTS - REFER TO DETAIL 4/A2.10.
7. INSTALL RIGID AND TAPERED RIGID INSULATION AND SADDLES MEETING MINIMUM OVERALL AVERAGE R-VALUE OF 25 WITH A MINIMUM R-VALUE AT ANY LOCATION OF 10 - FIRST LAYER TO BE 2" RIGID INSULATION (SET IN INSULATION ADHESIVE) - FOLLOWING LAYERS TO BE TAPERED RIGID INSULATION (SET IN INSULATION ADHESIVE). ALL INSULATION JOINTS, BOTH HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
8. INSTALL 1/2" DENS DECK PRIME - SET IN INSULATION ADHESIVE.
9. INSTALL MODIFIED BITUMEN BASE SHEET (MINIMUM THICKNESS 80 MIL) - SET IN COLD ADHESIVE.
10. INSTALL MODIFIED BITUMEN INTERPLY SHEET (MINIMUM THICKNESS 85 MIL) - SET IN COLD ADHESIVE.
11. INSTALL GRANULAR SURFACED MODIFIED BITUMEN CAP SHEET (MINIMUM THICKNESS 130 MIL) - HEAT WELDED.
12. INSTALL .063 ALUMINUM COPINGS AND COUNTERFLASHINGS.
13. FLASHING NOTES: (THE FOLLOWING NOTES APPLY TO METAL FLASHING CONDITIONS)
 - 13.1. ALL METAL FLASHINGS FLANGES ARE TO BE SET IN SEALANT.
 - 13.2. FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
 - 13.3. ISOMETRIC DRAWINGS ARE DIAGRAMMATIC.
 - 13.4. FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
 - 13.5. ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
 - 13.6. NON-EXPOSED NAIL FASTENERS TO BE 1-1/2" RING SHANK ROOFING NAILS.
 - 13.7. NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE 1-1/2" X 3/16" STAINLESS STEEL SCREWS.
 - 13.8. SCREW FASTENERS INTO MASONRY ARE TO BE 1-1/2" X 3/16" TAPCONS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
 - 13.9. EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 3/16" STAINLESS STEEL WITH NEOPRENE WASHERS.
 - 13.10. FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
14. UPON COMPLETION OF ROOFING SYSTEM, THE CONTRACTOR SHALL PROVIDE CERTIFICATION THAT THE NEW ROOF SYSTEM MEETS A MINIMUM 1/4" PER FOOT SLOPE AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL WATER TEST THE ROOF TO INSURE PROPER DRAINAGE.

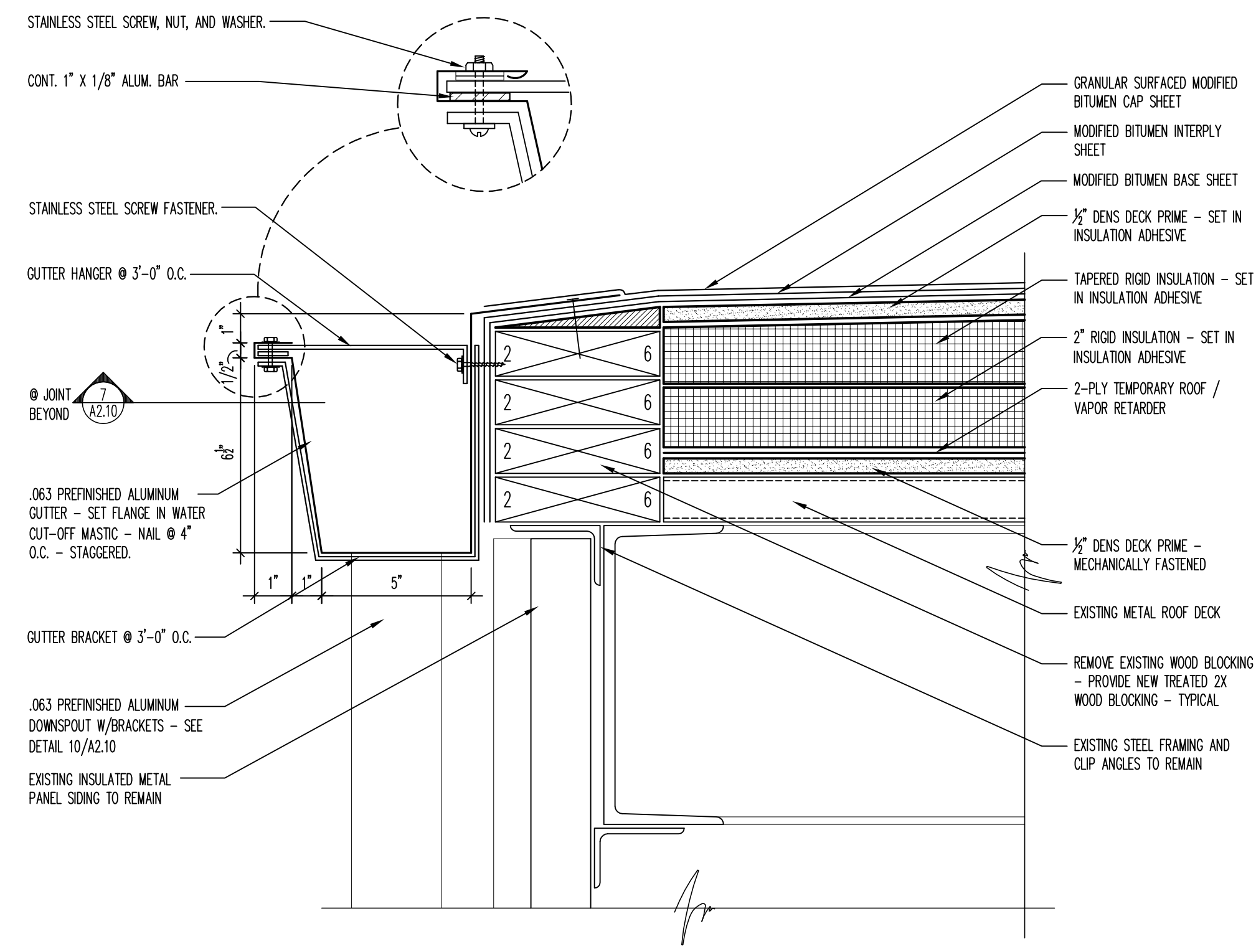
LEGEND	
	AREA OF 1/4"/FT. TAPERED ROOFING SYSTEM.
	HVAC UNIT & ROOF CURB - SEE DETAIL 1/A2.10.
	METAL GRAVEL STRIP - SEE DETAILS 5 & 6/A2.10.

GENERAL NOTES:


1. EXISTING ROOFING MATERIALS TO BE REMOVED CAREFULLY SO AS NOT TO DAMAGE THE EXISTING ROOF DECK. CONTRACTOR SHALL PROVIDE FOR PATCHING AND REPAIR OF 2% OF THE EXISTING METAL ROOF DECK.
2. ALL EXISTING ROOF PENETRATIONS INCLUDING ROOF CURBS AND RAILS, VENT PIPES, GUY WIRE SUPPORTS, ETC., ARE TO BE EXTENDED TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE OR AS RECOMMENDED BY ROOFING MANUFACTURER, WHICHEVER IS GREATER.
3. CONTRACTOR SHALL PROVIDE HOIST FOR REMOVAL OF ALL DEMOLISHED MATERIAL FROM THE ROOF AND FOR DELIVERY OF NEW MATERIAL AND EQUIPMENT TO THE ROOF. THE OWNER'S ELEVATORS SHALL BE USED FOR TRANSPORT OF PEOPLE ONLY, AND SHALL NOT BE USED TO TRANSPORT MATERIAL OR EQUIPMENT OF ANY KIND.
4. SITE NOTES:
 - 4.1. REPAIR CONCRETE AREAS DAMAGED DURING CONSTRUCTION.
 - 4.2. REPAIR BITUMINOUS AREAS DAMAGED DURING CONSTRUCTION.
 - 4.3. REPAIR ALL LANDSCAPING DAMAGED DURING CONSTRUCTION.
5. CONTRACTOR SHALL PROTECT WINDOWS ADJACENT TO WORK AREA ONE FLOOR BELOW AND TWO FLOORS ABOVE. WINDOWS SHALL BE COVERED WITH PLASTIC FROM EXTERIOR AND SEALED.
6. THE OWNER SHALL ABATE ANY DISCOVERED ASBESTOS CONTAINING MATERIAL. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY SUCH DISCOVERED MATERIAL.
7. ALL EXISTING AIR INTAKES ADJACENT TO THE WORK AREA SHALL BE COVERED WITH PHOTOCATALYTIC FILTERS OR CARBON BLOCK FILTERS.
8. CONTRACTOR SHALL COORDINATE SHUT-DOWN OF ALL HVAC UNITS, ANTENNA, SATELLITE DISHES AND ANY OTHER ROOFTOP EQUIPMENT WITH THE VA.



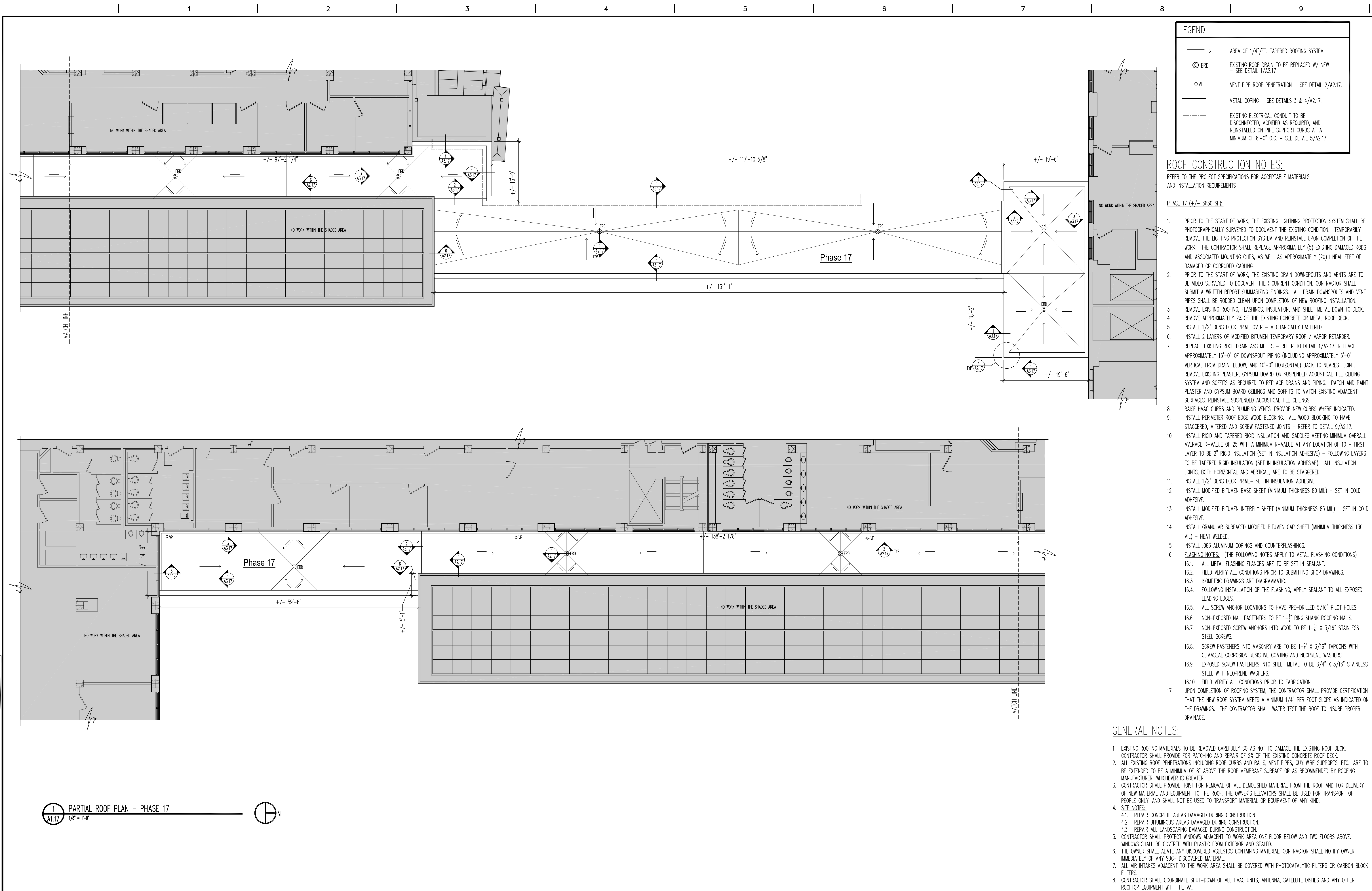
2 ROOF EDGE DETAIL
3/8" = 1'-0"





3 ROOF EDGE DETAIL
3/8" = 1'-0"

		CONSULTANTS: <div>Interstate Roof Systems Consultants, Inc. 1275 Davis Road, Suite 132 Elgin, IL 60123 Tel (847) 695-1460 Fax (847) 695-1462 www.irscinc.com</div>	Design Project Number 537-09-164	ARCHITECT/ENGINEERS: <div>LEGATARCHITECTS sustainability performance design 651 West Washington Blvd. - Suite One Chicago, Illinois 60661-2122 Tel 312.258.9595 Fax 312.258.1555 www.legat.com</div>	Drawing Title ROOF PLAN, NOTES AND ROOF DETAILS	Project Title ROOFING REPLACEMENT PHASE 10	Construction Project Number 537-12-135	Office of Construction and Facilities Management	
					Building Number BUILDING NO. 27				
					Drawing Number A1.10				
BIDDING DOCUMENTS	12/12/12				Approved Project Director	Location CHICAGO IL		Dwg. 5 of 19	
95% DESIGN DOCUMENTS	06/21/12				VAPAHCS PLANNING AND ENGINEERING	Date 12/12/12	Checked TK		Drawn TH
Revisions	Date								
								Department of Veterans Affairs	

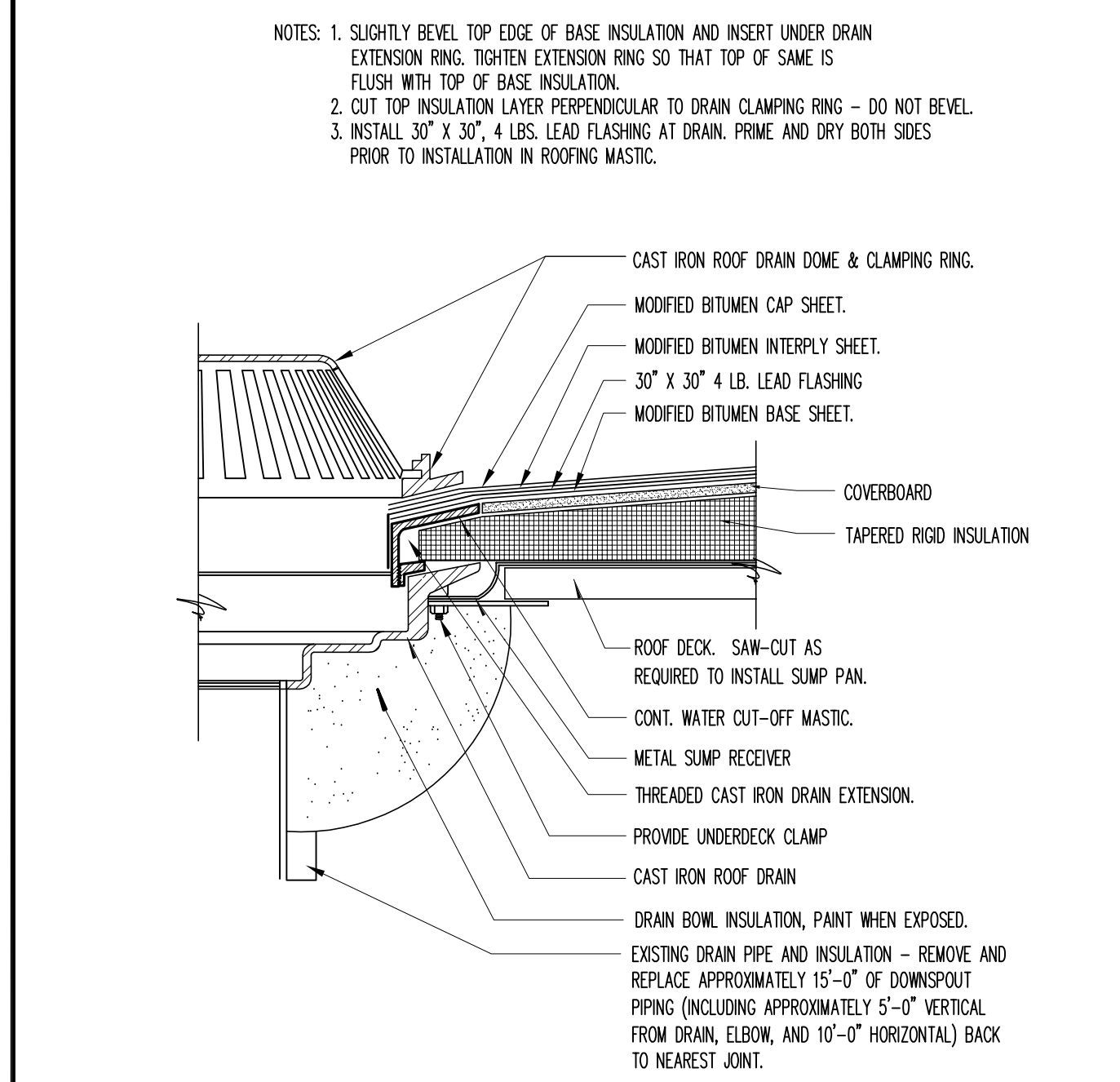
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



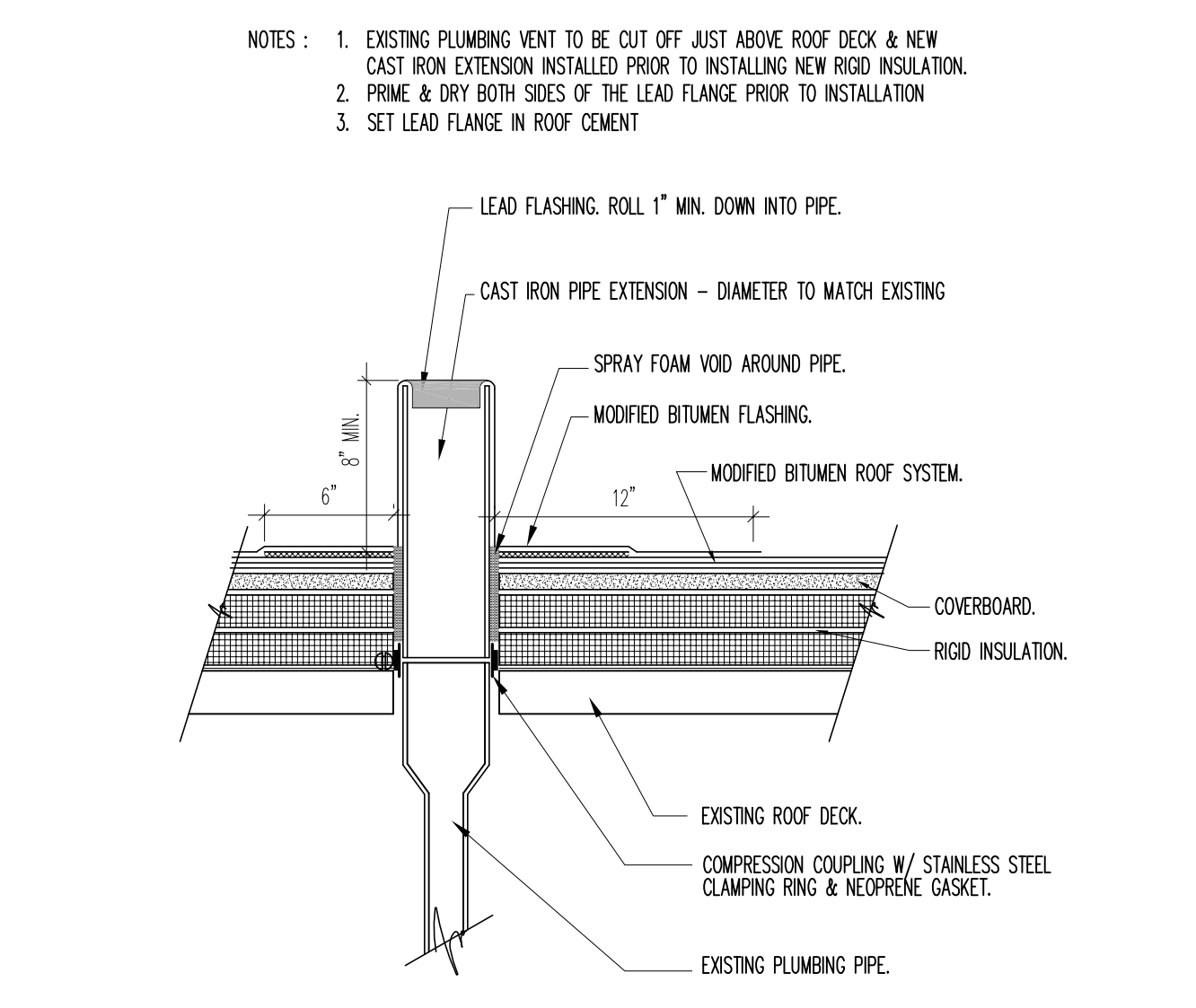
		CONSULTANTS: <div><div>Interstate Roof Systems Consultants, Inc. 1275 Davis Road, Suite 132 Elgin, IL 60123 Tel (847) 695-1460 Fax (847) 695-1462 www.irscinc.com</div></div>	Design Project Number 537-09-164	ARCHITECT/ENGINEERS: <div>LEGATARCHITECTS sustainability performance design</div> <div>651 West Washington Blvd. - Suite One Chicago, Illinois 60661-2122 Tel 312.258.9595 Fax 312.258.1555 www.legat.com</div>	Drawing Title ROOF PLAN AND NOTES	Project Title ROOFING REPLACEMENT PHASE 17	Construction Project Number 537-12-135	<div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div>
					Building Number BUILDING NO. 30			
BIDDING DOCUMENTS	12/12/12				Location CHICAGO IL	Drawing Number A1.17		
95% DESIGN DOCUMENTS	06/21/12							
Revisions	Date							
		Approved Project Director VAPAHCS PLANNING AND ENGINEERING	Date 12/12/12	Checked TK	Drawn DD	Drawing Number A1.17	Page 7 of 19	

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

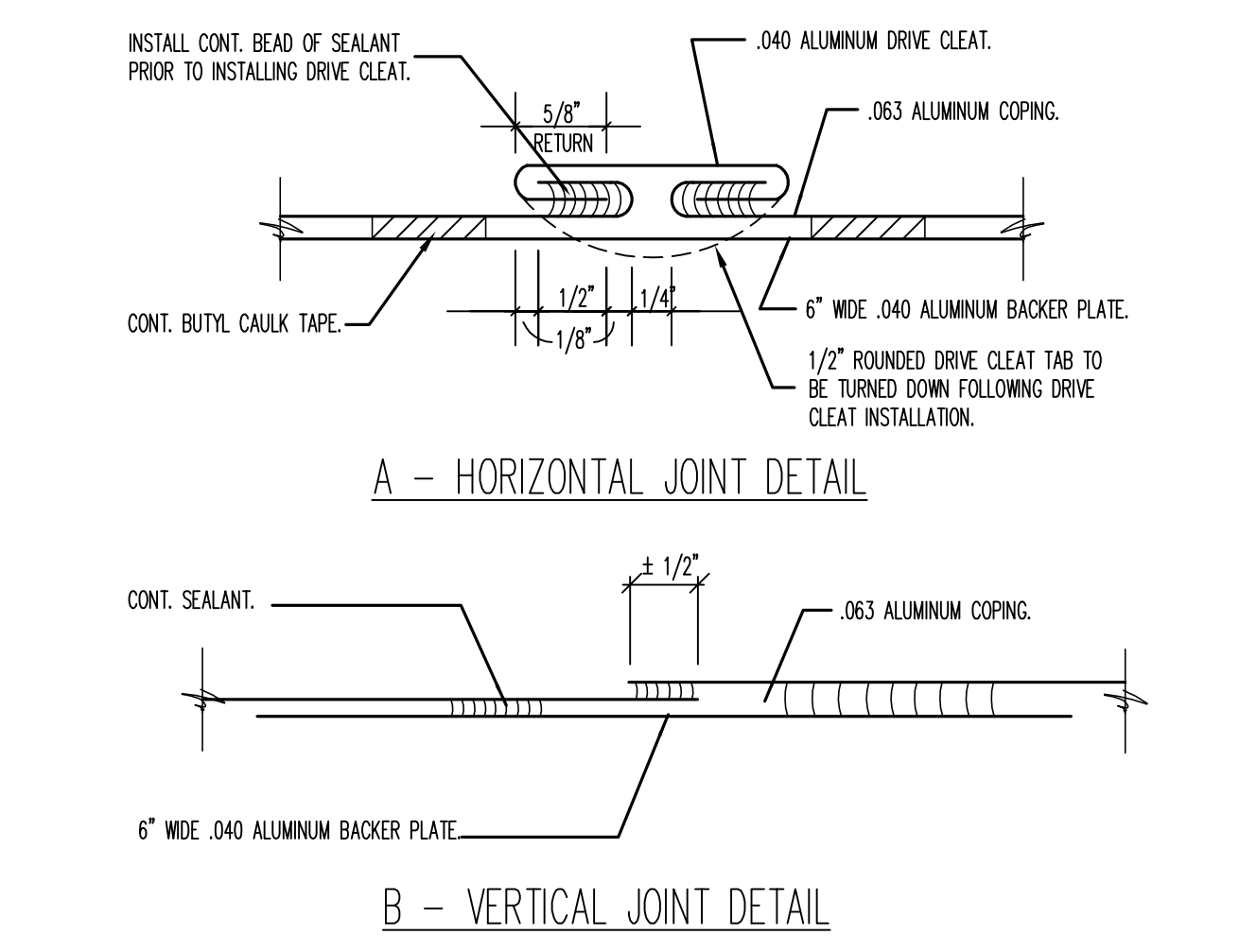
1 2 3 4 5 6 7 8 9



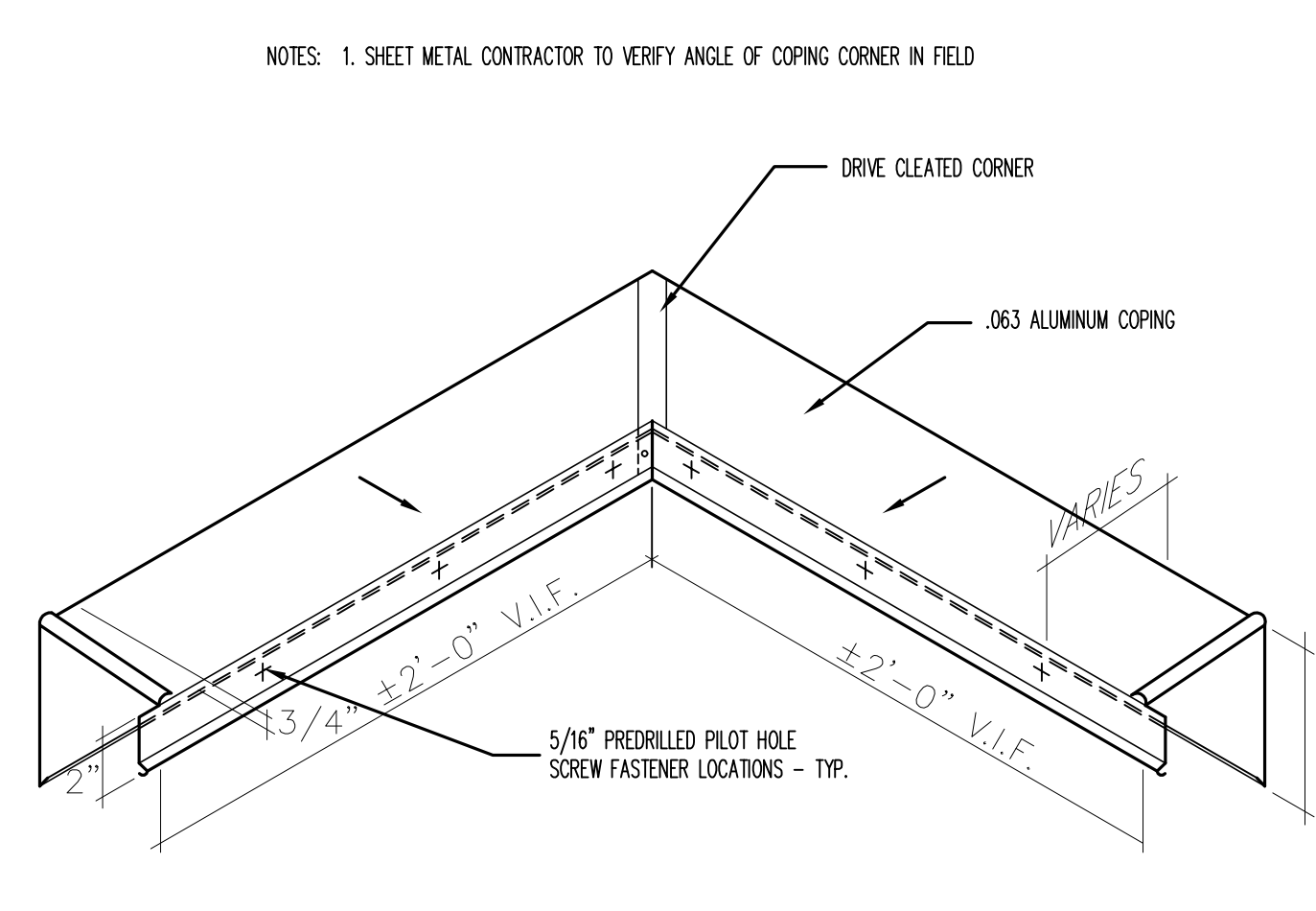
1 REPLACEMENT ROOF DRAIN DETAIL
SCALE: 1-1/2" = 1'-0"



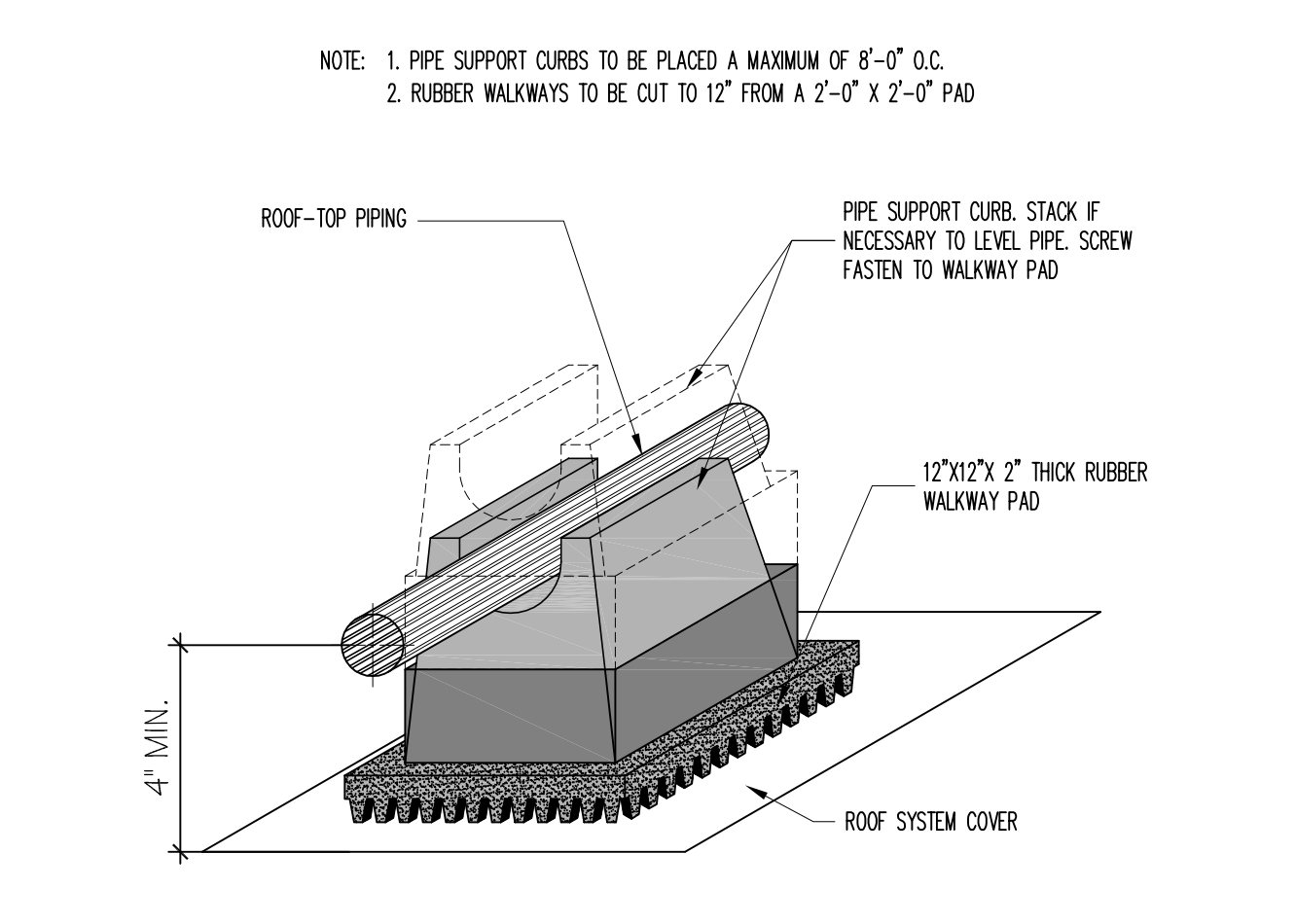
2 VENT PIPE EXTENSION DETAIL
SCALE: 1-1/2" = 1'-0"



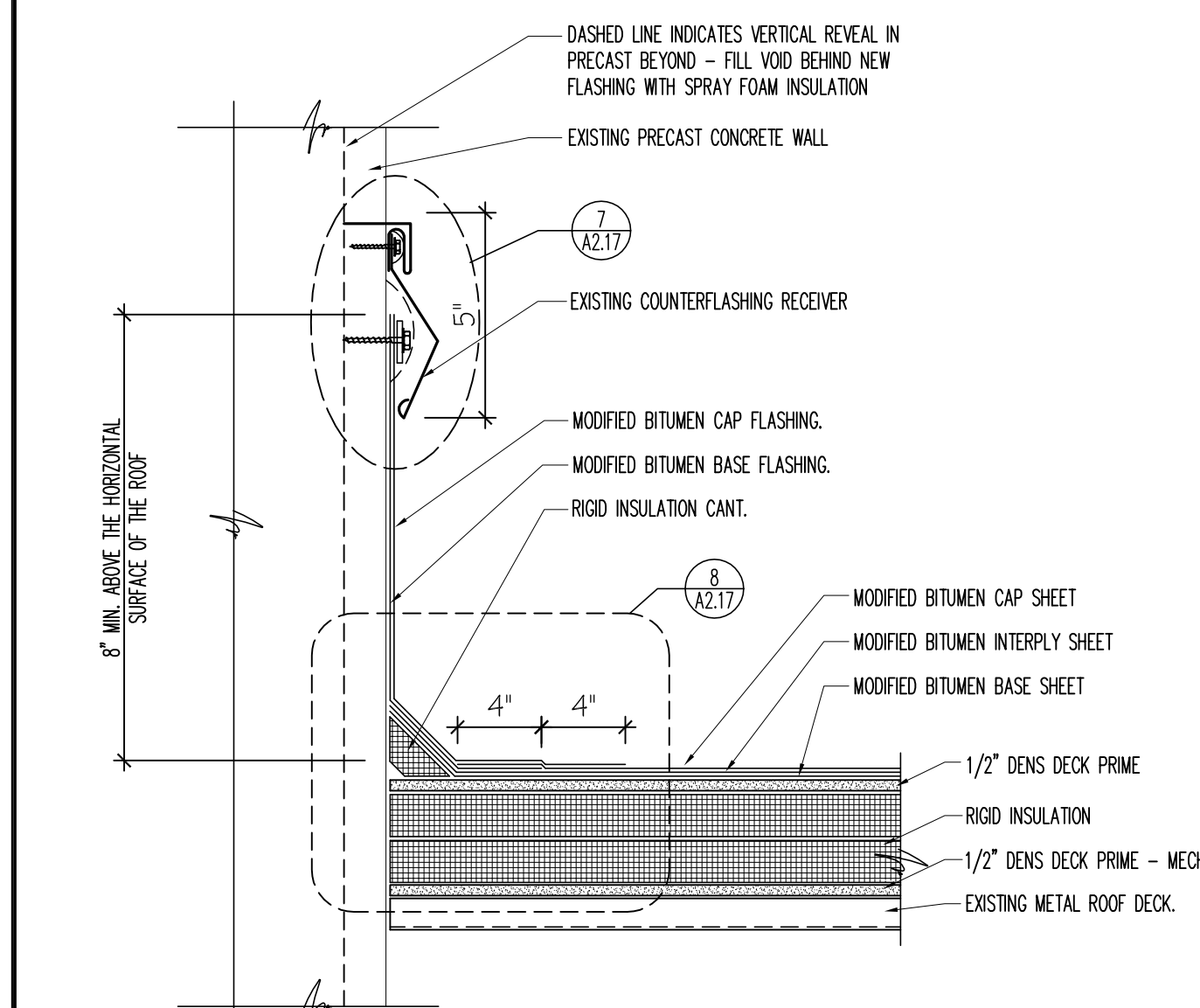
3 SHEET METAL JOINT DETAILS
SCALE: NTS



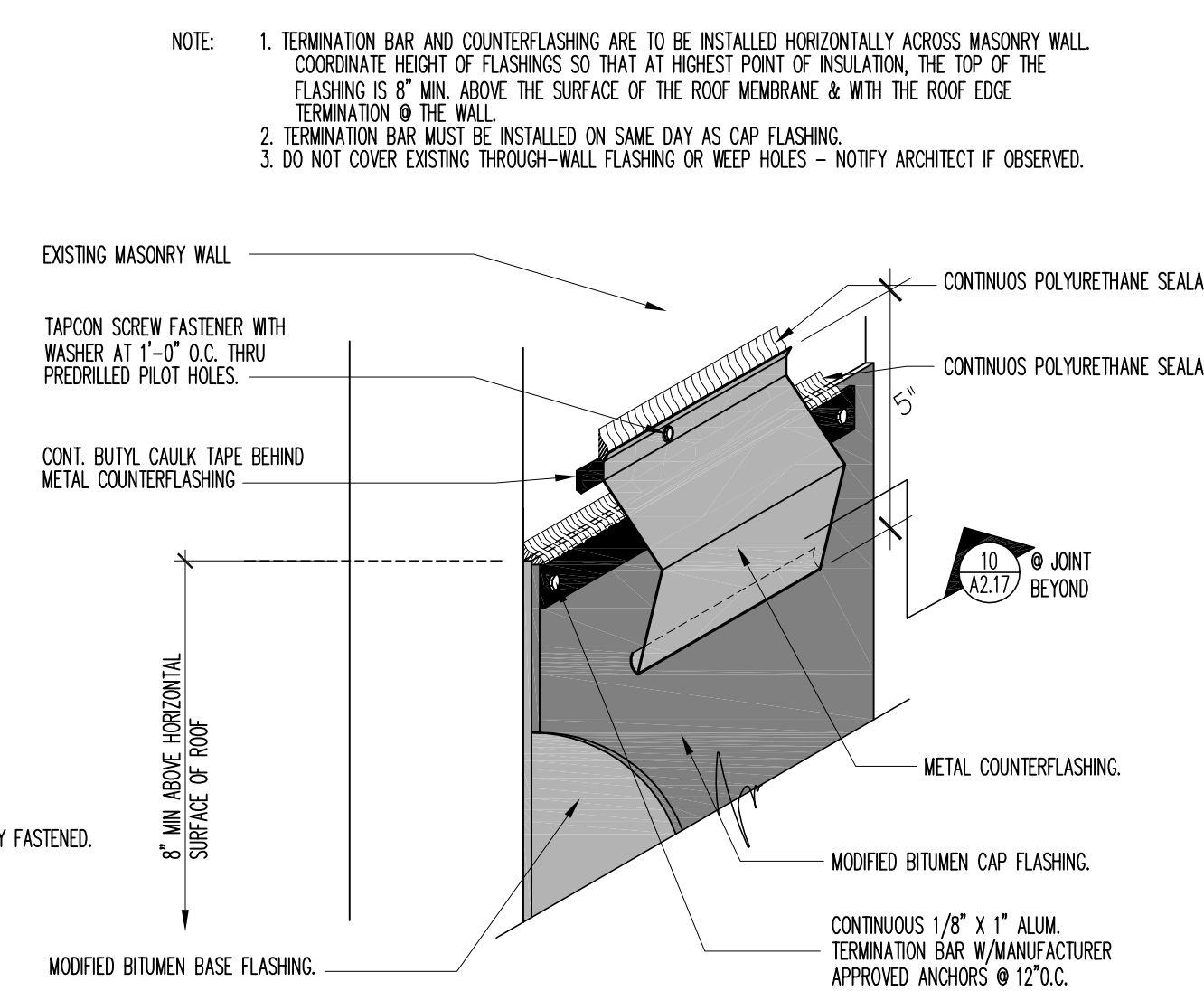
4 OUTSIDE COPING CORNER DETAIL
SCALE: 1-1/2" = 1'-0"



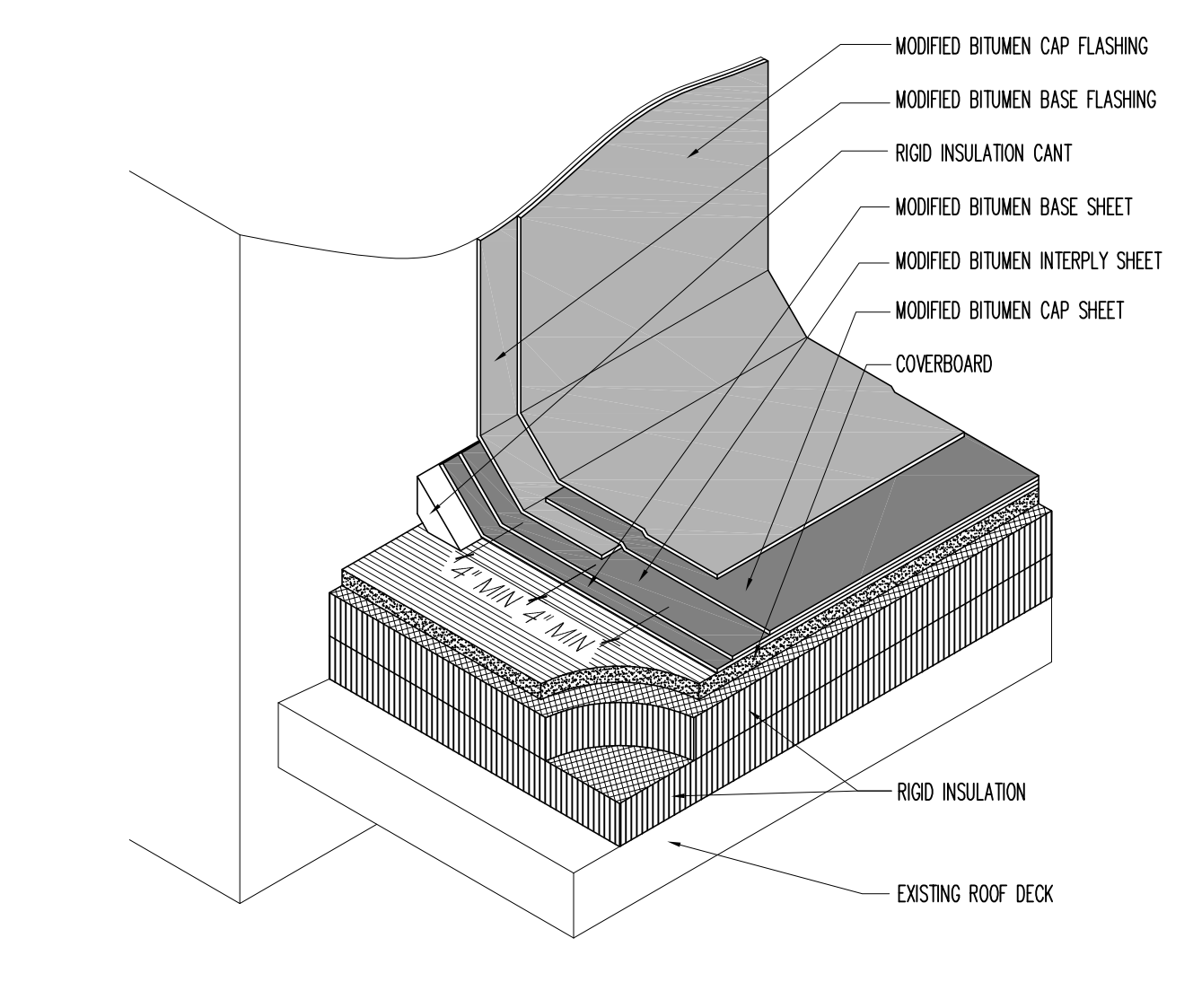
5 PIPE SUPPORT CURB DETAIL
SCALE: 1/2" = 1'-0"



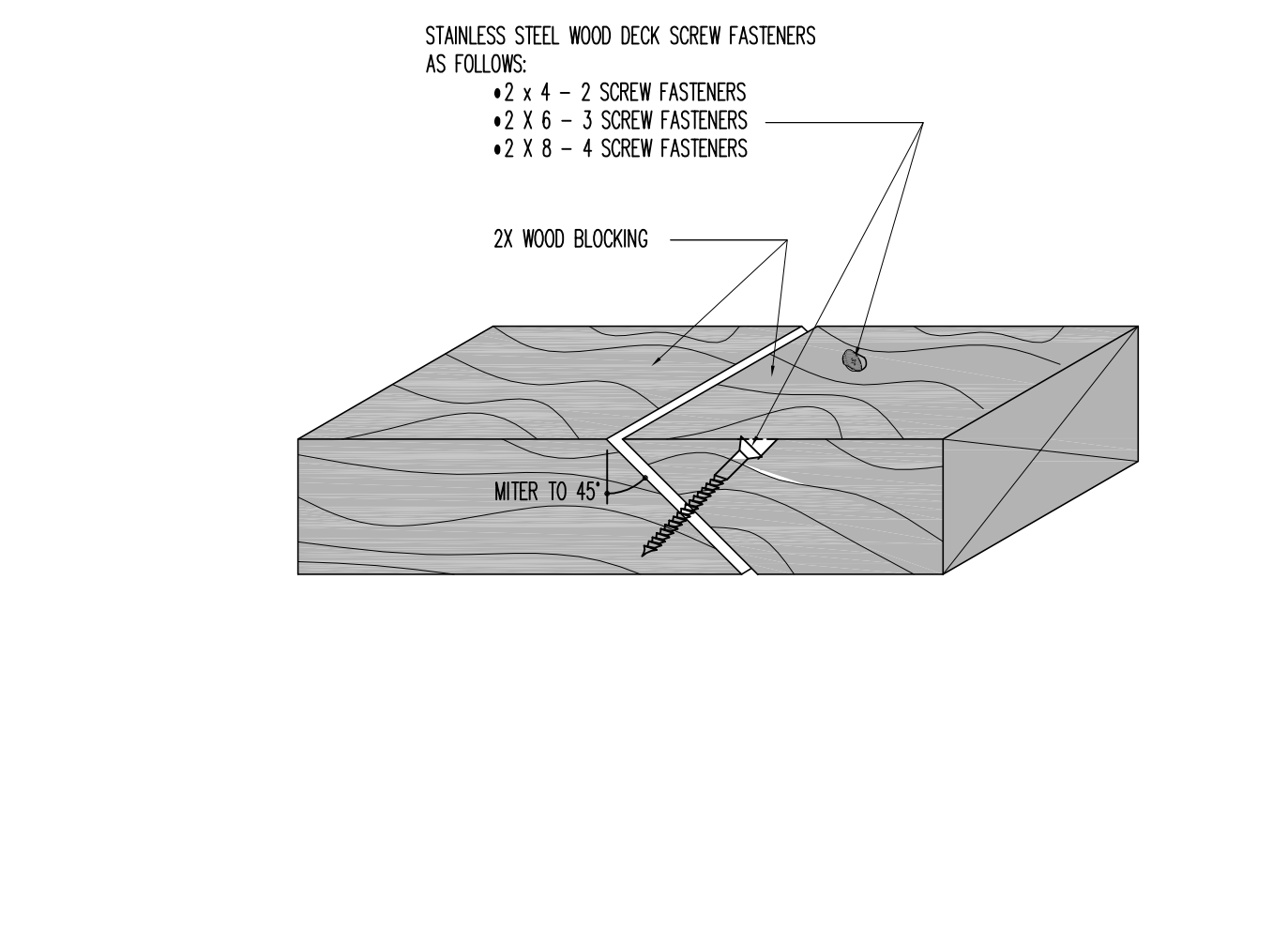
6 ROOF TERMINATION DETAIL
SCALE: 1-1/2" = 1'-0"



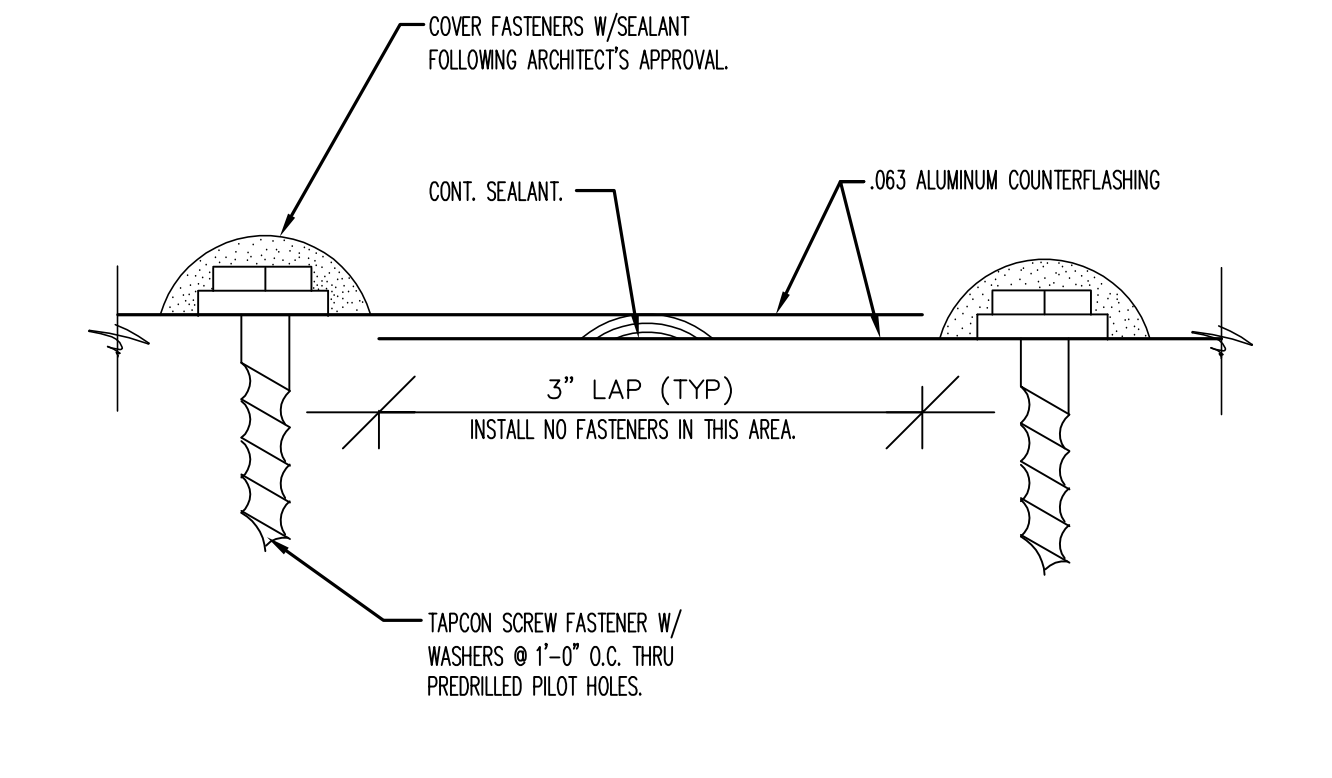
7 ROOF FLASHING TERMINATION AND COUNTERFLASHING DETAIL
SCALE: 3" = 1'-0"





8 BASE FLASHING DETAIL
SCALE: 1-1/2" = 1'-0"



9 WOOD BLOCKING JOINT DETAIL
SCALE: 6" = 1'-0"



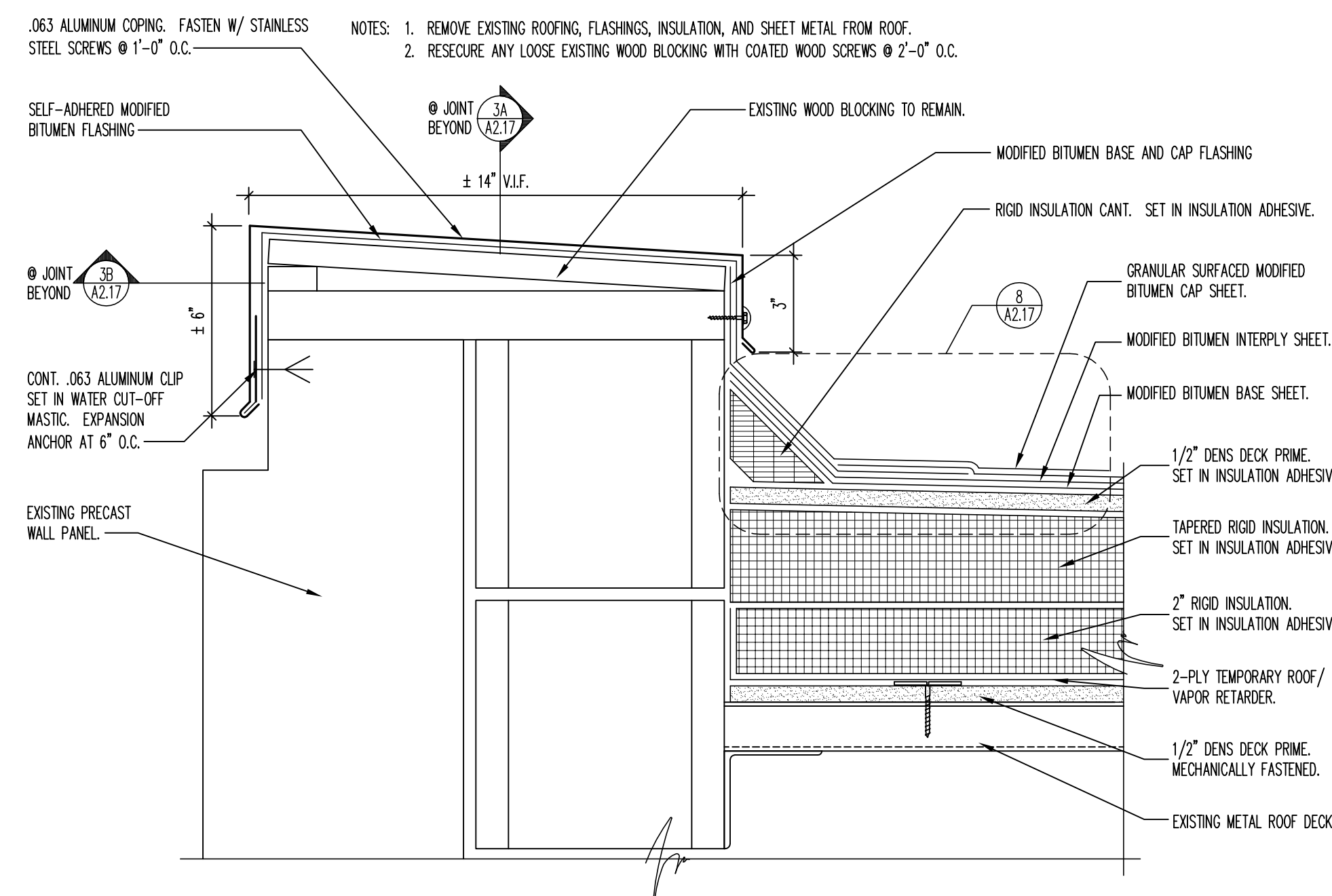
10 COUNTERFLASHING LAP JOINT DETAIL
SCALE: 6" = 1'-0"

CONSULTANTS:  Interstate Roof Systems Consultants, Inc. 1275 Davis Road, Suite 132 Elgin, IL 60123 Tel (847) 695-1460 Fax (847) 695-1462 www.irscinc.com		Design Project Number 537-09-164	ARCHITECT/ENGINEERS: LEGAT ARCHITECTS sustainability performance design 651 West Washington Blvd. - Suite One Chicago, Illinois 60661-2122 Tel 312.258.9595 Fax 312.258.1555 www.legat.com	Drawing Title ROOF DETAILS Approved Project Director VAPAHCS PLANNING AND ENGINEERING	Project Title ROOFING REPLACEMENT PHASE 17 Location CHICAGO IL Date 12/12/12 Checked TK Drawn DD	Construction Project Number 537-12-135 Building Number BUILDING NO. 30 Drawing Number A2.17 Dwg. 8 of 19	Office of Construction and Facilities Management  Department of Veterans Affairs
--	--	--	--	--	--	---	--

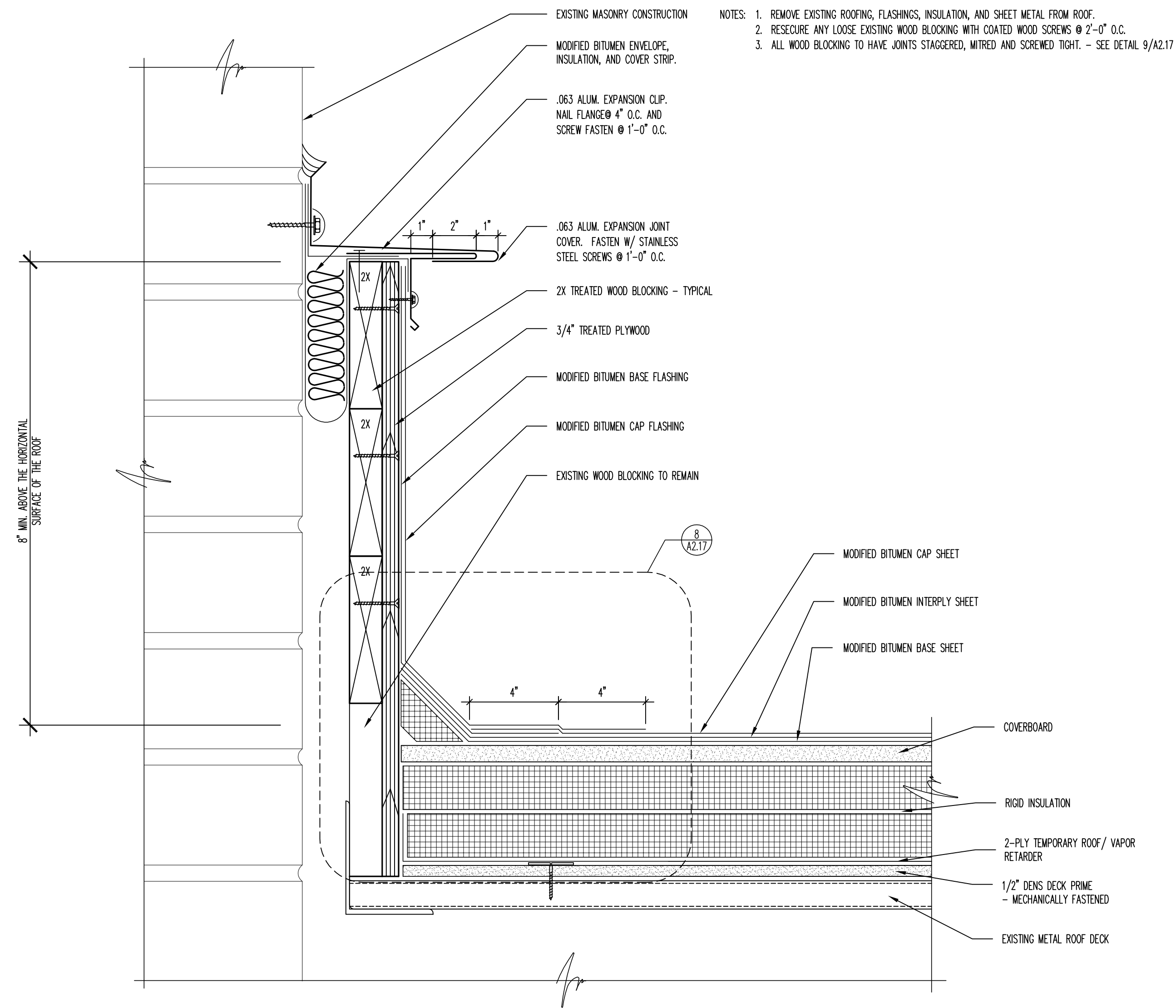
VA FORM 08-6231 1 2 3 4 5 6 7 8 9

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

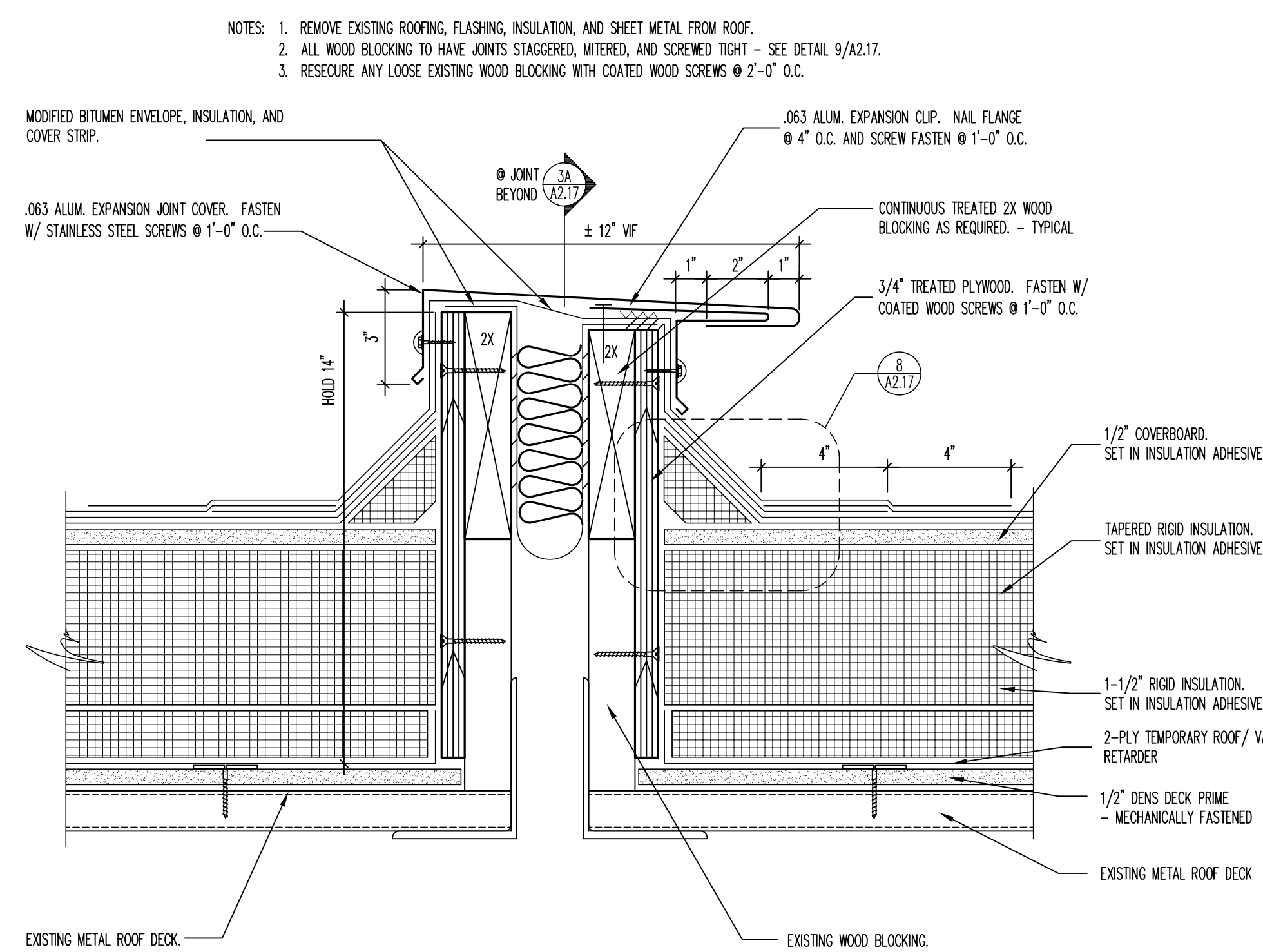
A
B
C
D
E
F



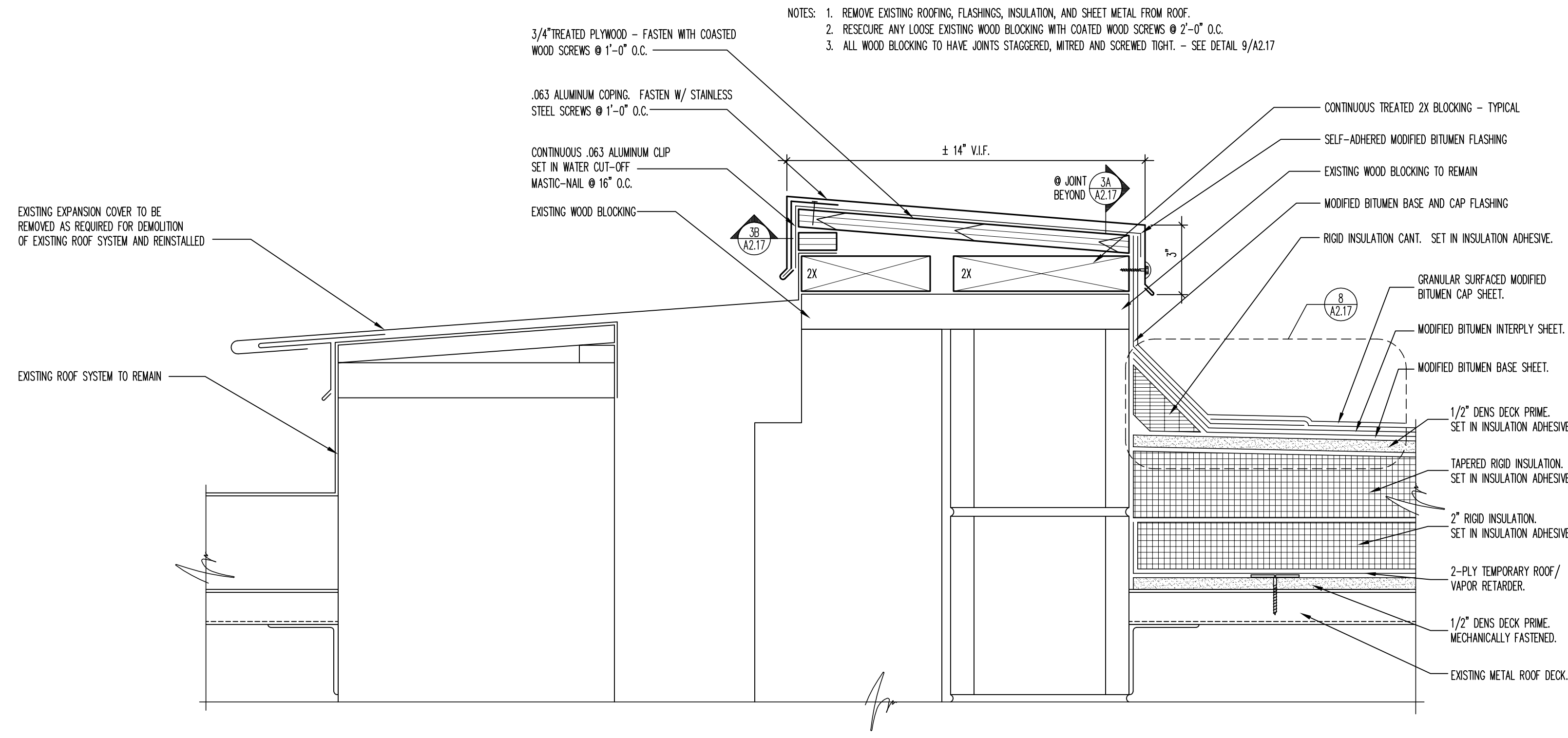
1 ROOF TERMINATION DETAIL @ METAL WALL PANEL
SCALE: 3/4"=1'-0"



3 ROOF EDGE DETAIL
SCALE: 3/4"=1'-0"



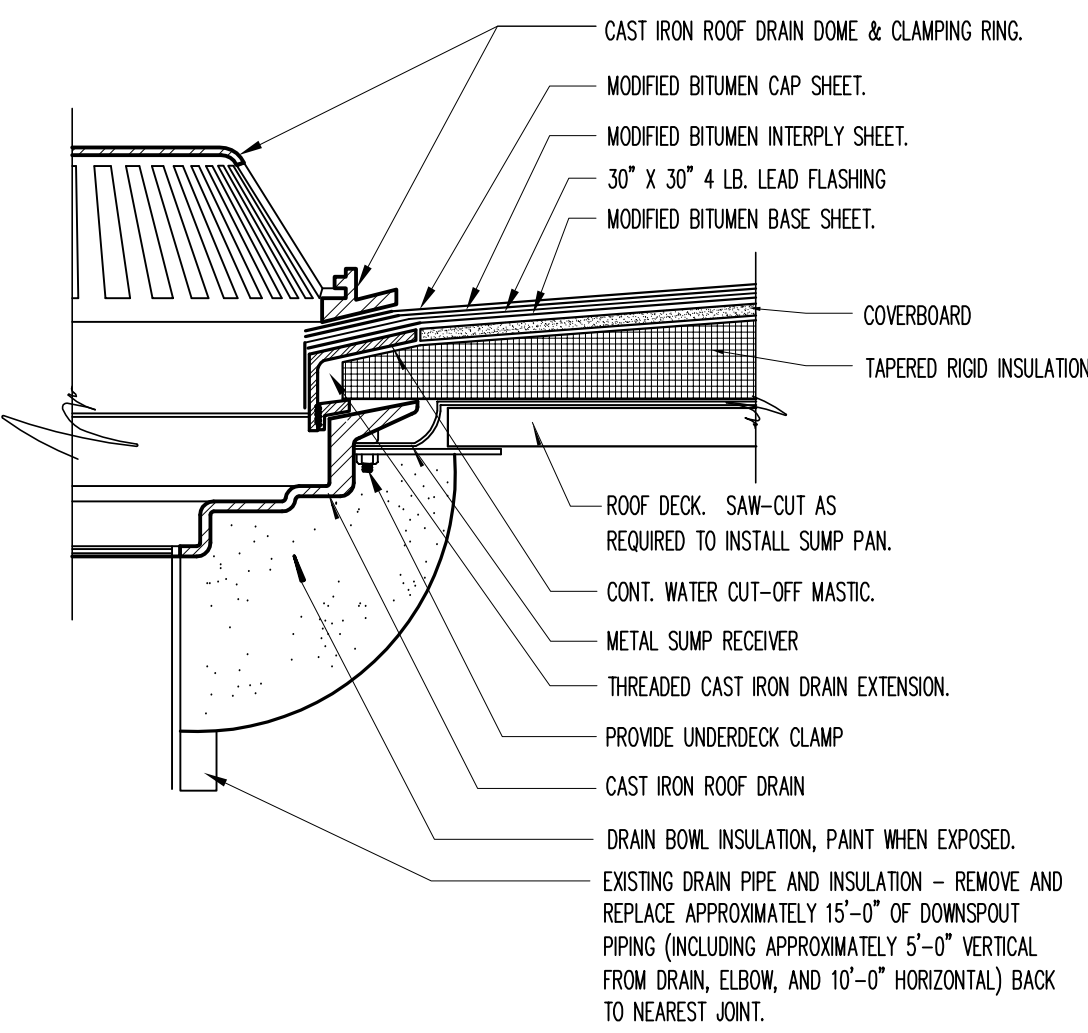
2 ROOF EXPANSION JOINT DETAIL
SCALE: 3/4"=1'-0"



4 ROOF EDGE DETAIL
SCALE: 3/4"=1'-0"

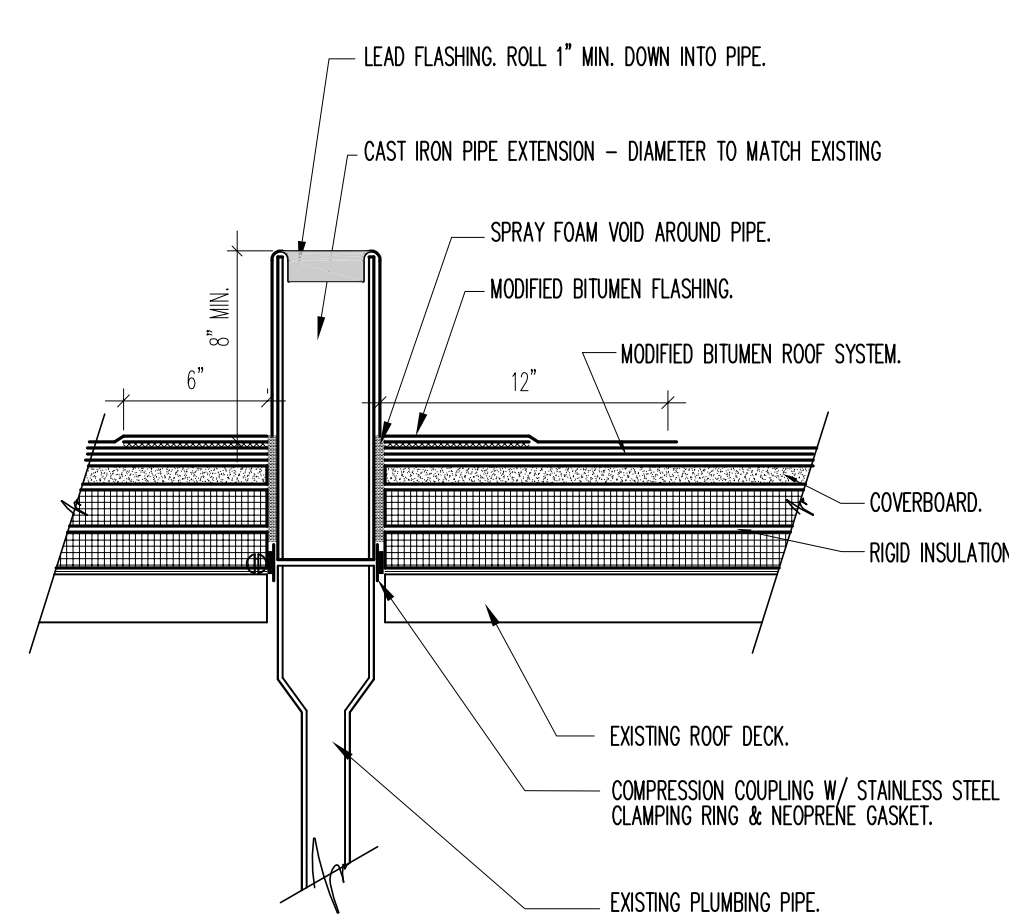
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- NOTES: 1. SLIGHTLY BEVEL TOP EDGE OF BASE INSULATION AND INSERT UNDER DRAIN EXTENSION RING. TIGHTEN EXTENSION RING SO THAT TOP OF SAME IS FLUSH WITH TOP OF BASE INSULATION.
2. CUT TOP INSULATION LAYER PERPENDICULAR TO DRAIN CLAMPING RING - DO NOT REVEL.
3. INSTALL 30" X 30", 4 LBS. LEAD FLASHING AT DRAIN. PRIME AND DRY BOTH SIDES PRIOR TO INSTALLATION IN ROOFING MASTIC.

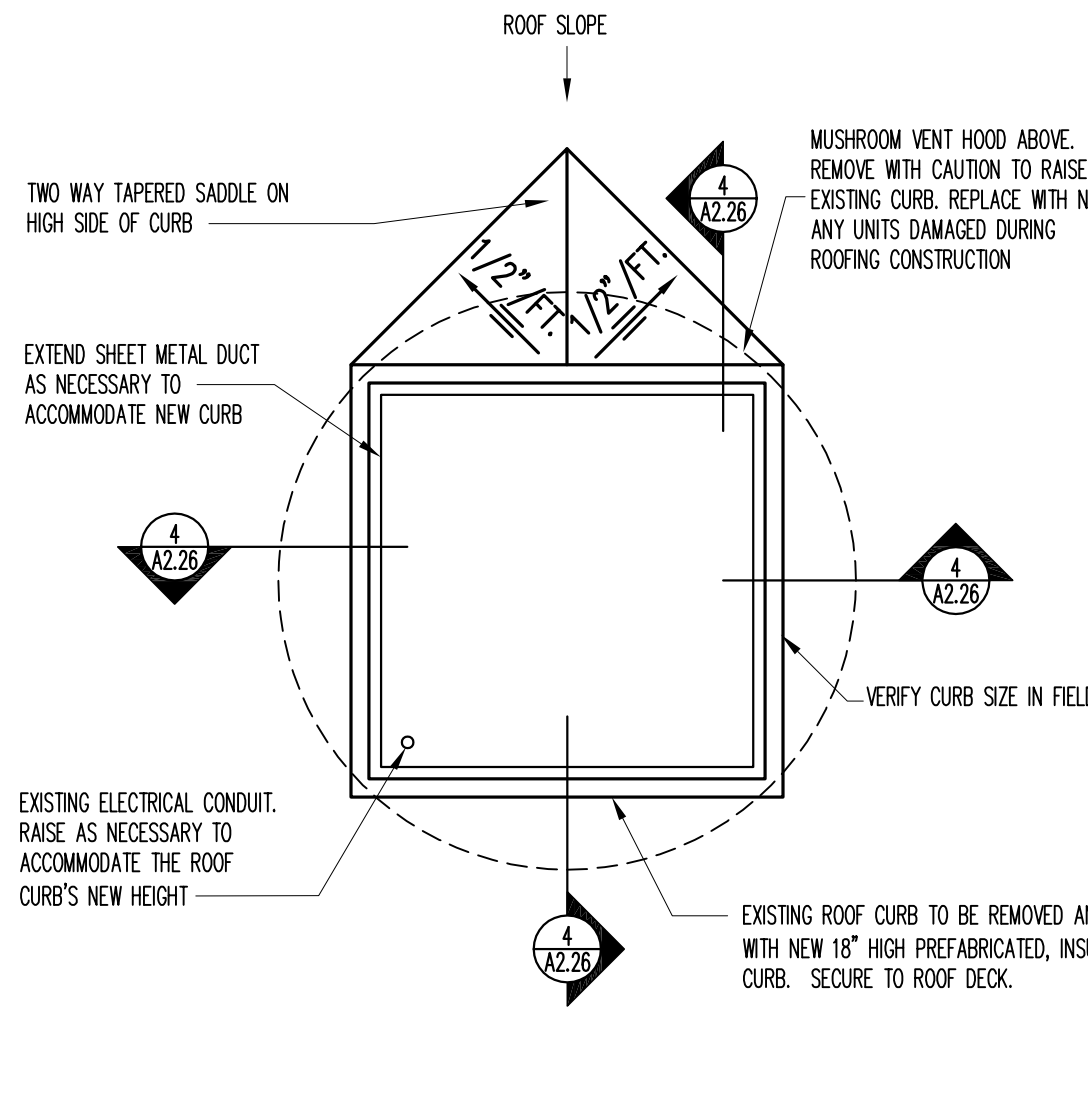


1 REPLACEMENT ROOF DRAIN DETAIL
SCALE: 1-1/2" = 1'-0"

- NOTES: 1. EXISTING PLUMBING VENT TO BE CUT OFF JUST ABOVE ROOF DECK & NEW CAST IRON PIPE EXTENSION INSTALLED PRIOR TO INSTALLING NEW RIGID INSULATION.
2. PRIME & DRY BOTH SIDES OF THE LEAD FLANGE PRIOR TO INSTALLATION.
3. SET LEAD FLANGE IN ROOF CEMENT.

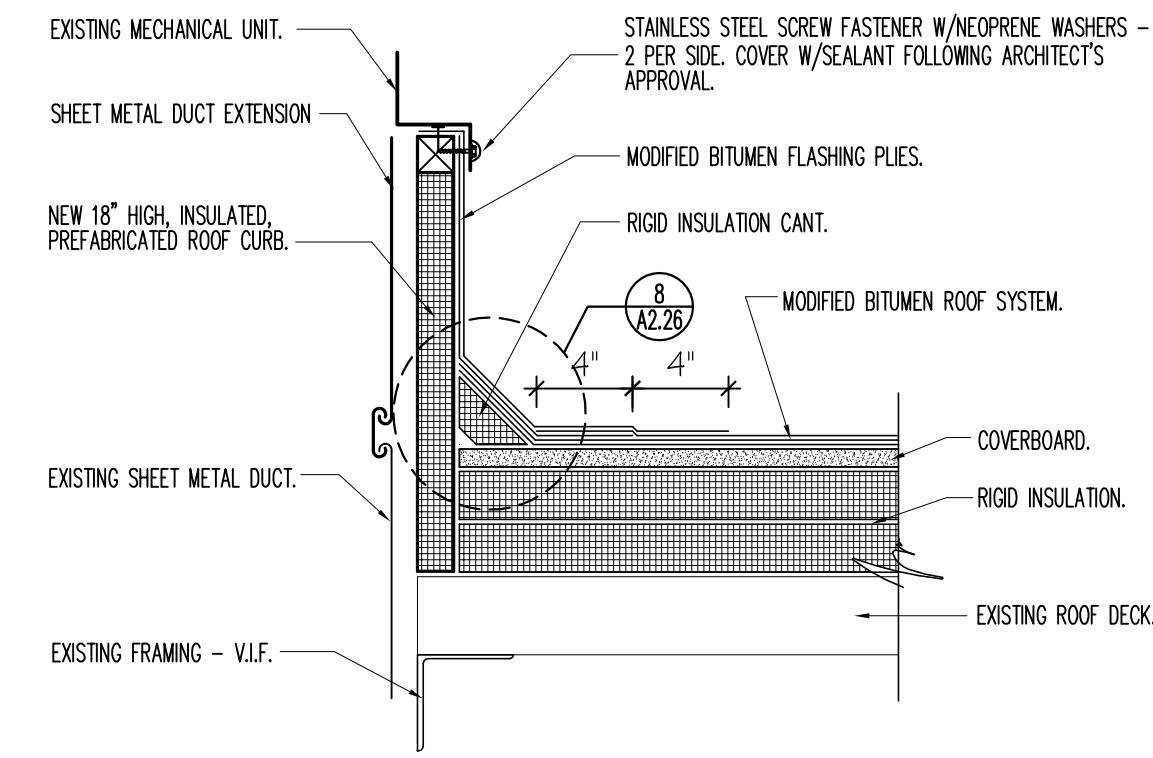


2 VENT PIPE EXTENSION DETAIL
SCALE: 1-1/2" = 1'-0"



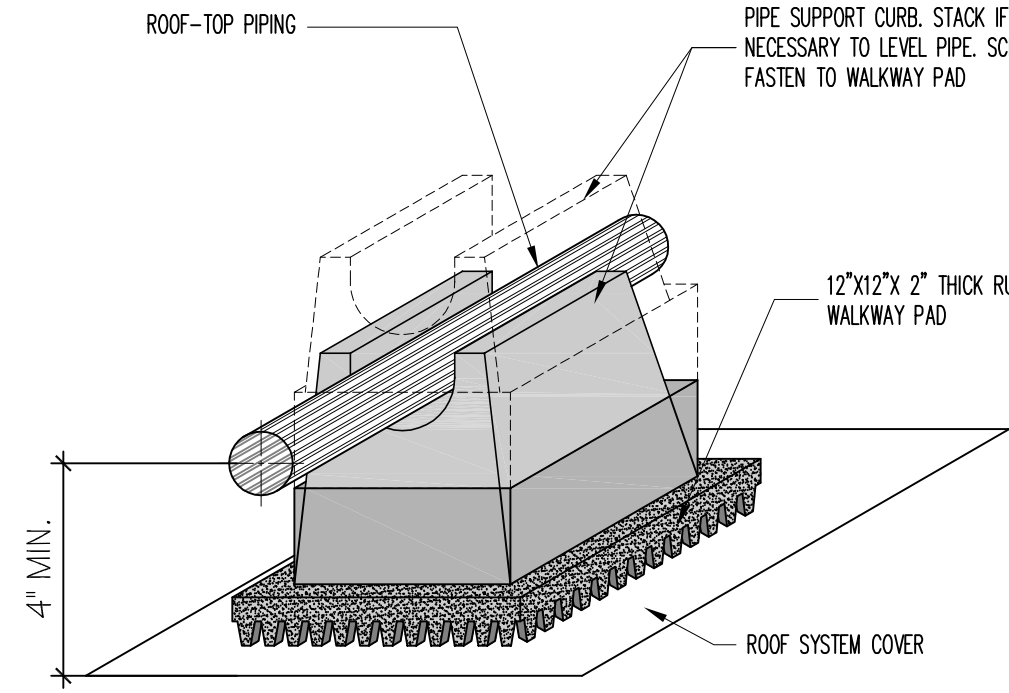
3 ROOF CURB PLAN DETAIL
SCALE: 1-1/2" = 1'-0"

- NOTES: 1. EXISTING ROOF CURB TO BE REMOVED AND REPLACED WITH NEW.
2. RAISE EXISTING ROOF TOP UNIT W/CAUTION. EXTEND ELECTRICAL WIRING, CONDUIT, & SHEET METAL DUCTS AS NECESSARY TO ATTAIN REQUIRED HEIGHT. REPLACE W/NEW ANY UNITS DAMAGED DURING REROOFING CONSTRUCTION.

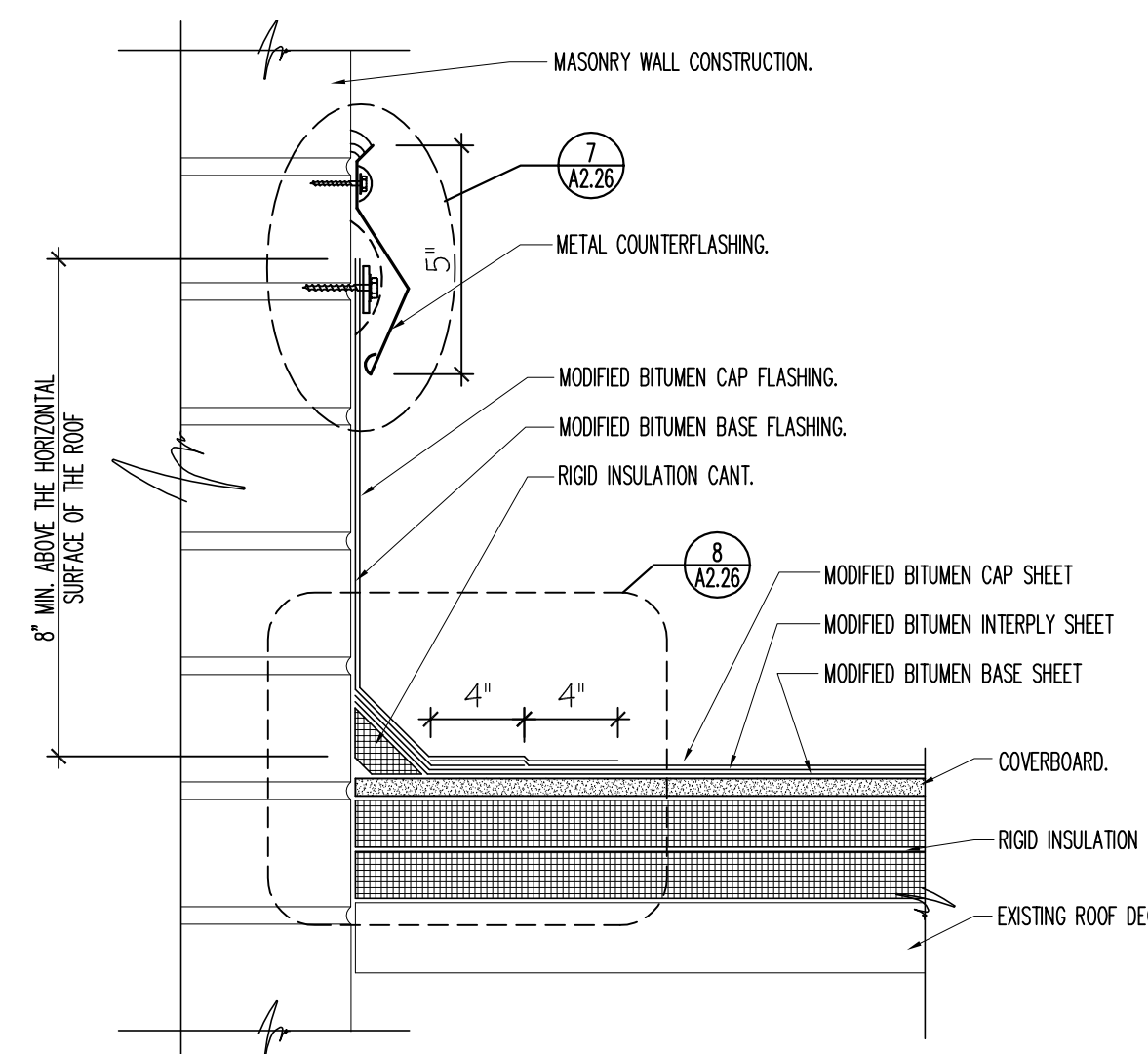


4 ROOF CURB REPLACEMENT DETAIL
SCALE: 1-1/2" = 1'-0"

- NOTE: 1. PIPE SUPPORT CURBS TO BE PLACED A MAXIMUM OF 8'-0" O.C.
2. RUBBER WALKWAYS TO BE CUT TO 12" FROM A 2'-0" X 2'-0" PAD

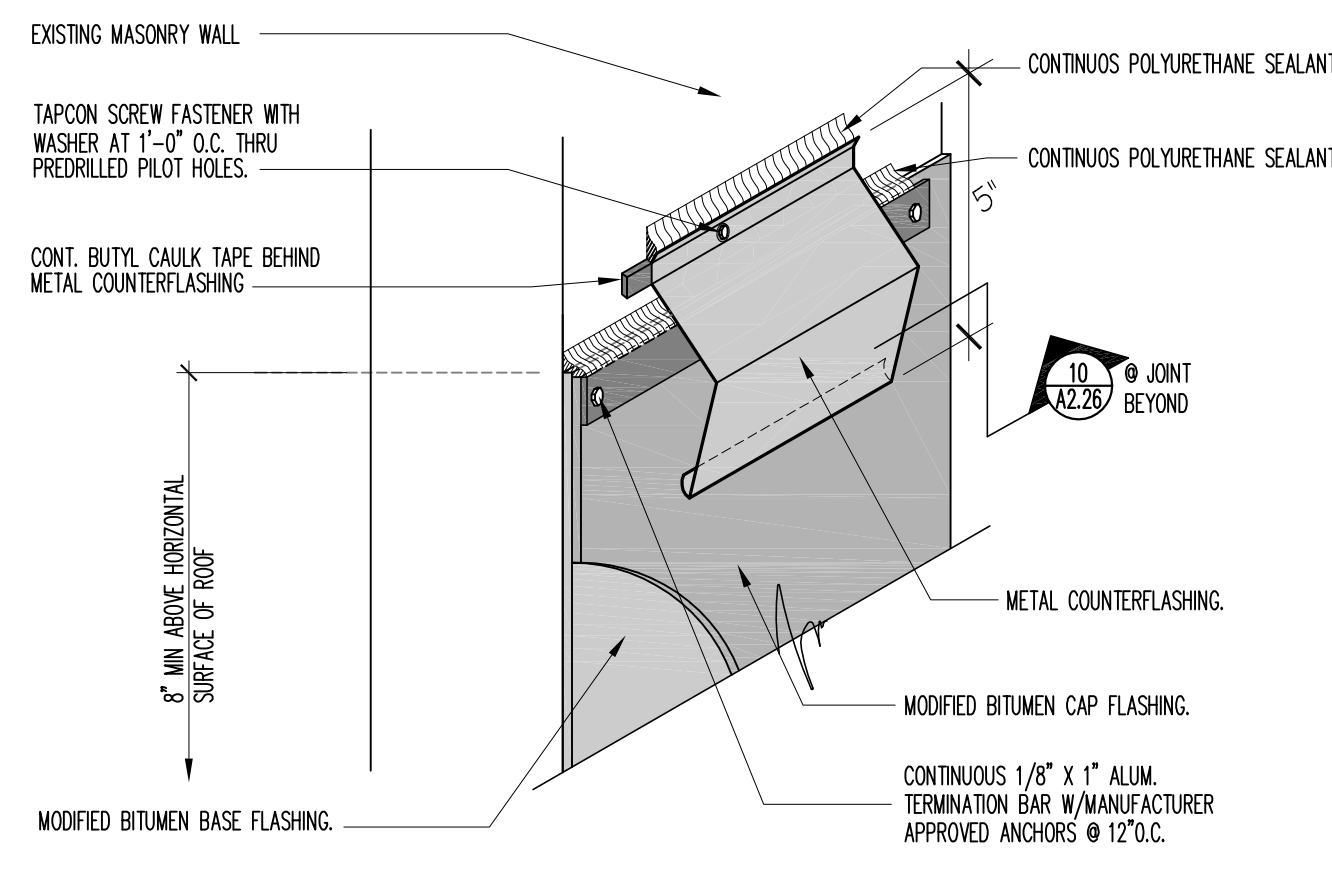


5 PIPE SUPPORT CURB DETAIL
SCALE: 1/2" = 1'-0"

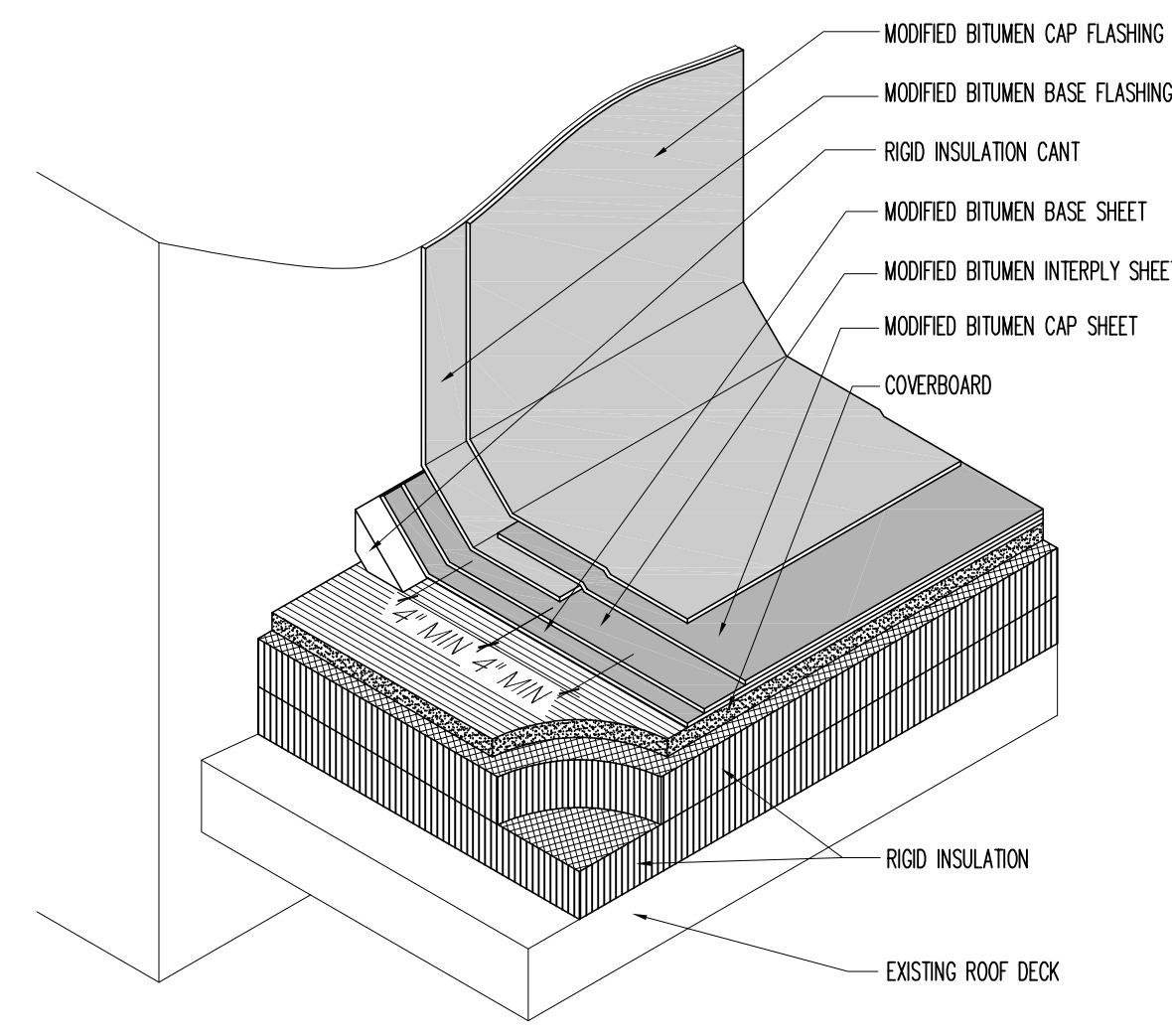


6 ROOF TERMINATION DETAIL
SCALE: 1-1/2" = 1'-0"

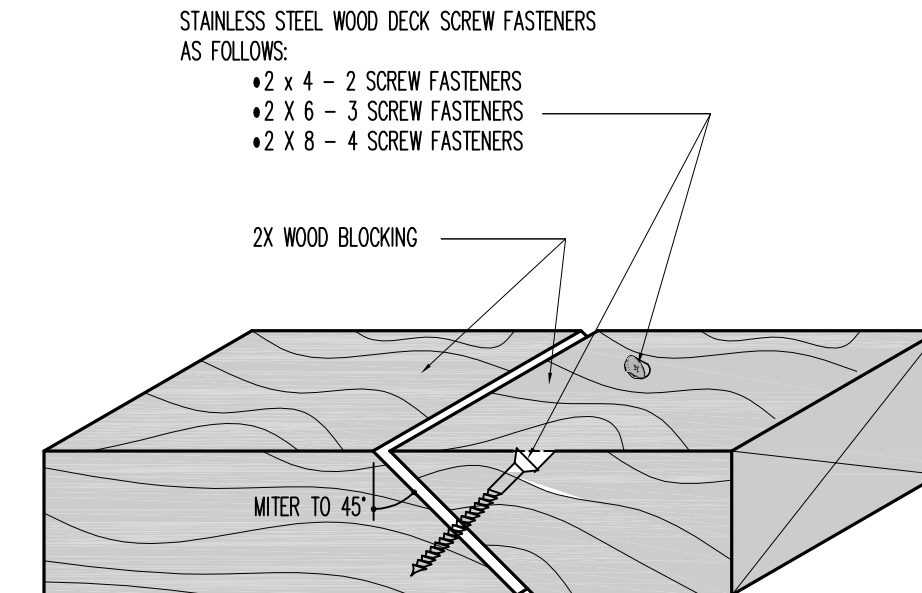
- NOTE: 1. TERMINATION BAR AND COUNTERFLASHING ARE TO BE INSTALLED HORIZONTALLY ACROSS MASONRY WALL. COORDINATE HEIGHT OF FLASHINGS SO THAT AT HIGHEST POINT OF INSULATION, THE TOP OF THE FLASHING IS 6" MIN. ABOVE THE SURFACE OF THE ROOF MEMBRANE & WITH THE ROOF EDGE TERMINATION @ THE WALL.
2. TERMINATION BAR MUST BE INSTALLED ON SAME DAY AS CAP FLASHING.
3. DO NOT COVER EXISTING THROUGH-WALL FLASHING OR WEEP HOLES - NOTIFY ARCHITECT IF OBSERVED.



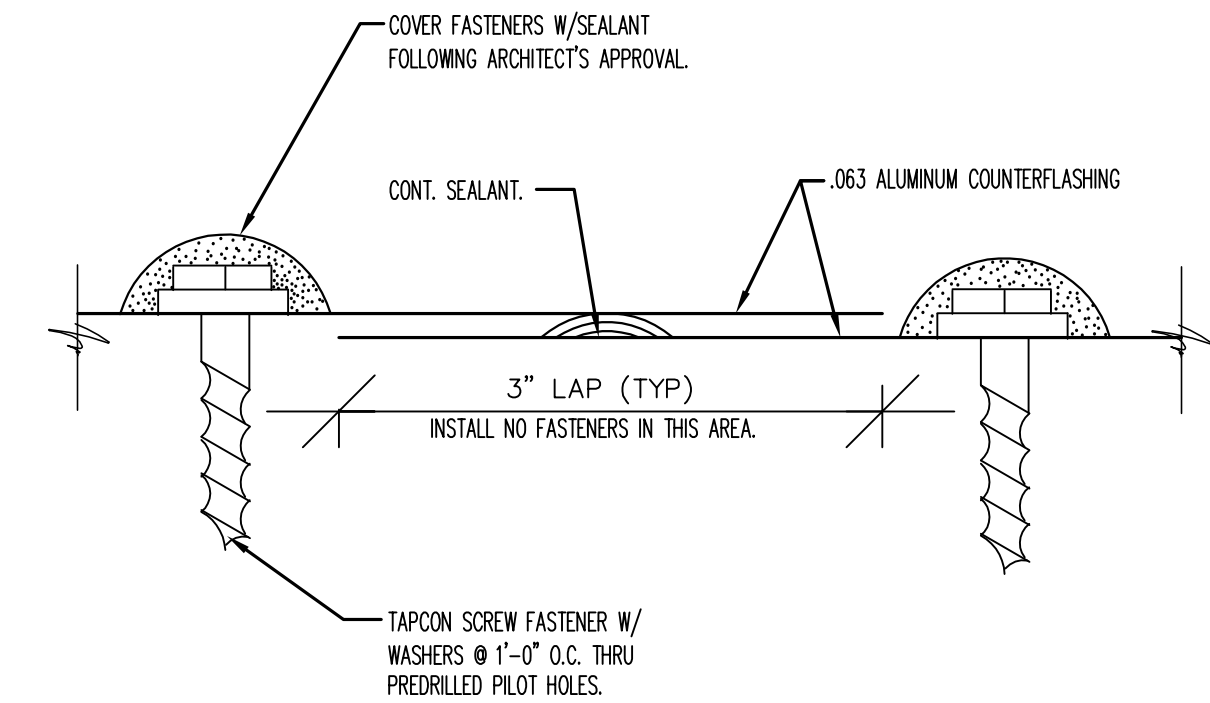
7 ROOF FLASHING TERMINATION AND COUNTERFLASHING DETAIL
SCALE: 3" = 1'-0"



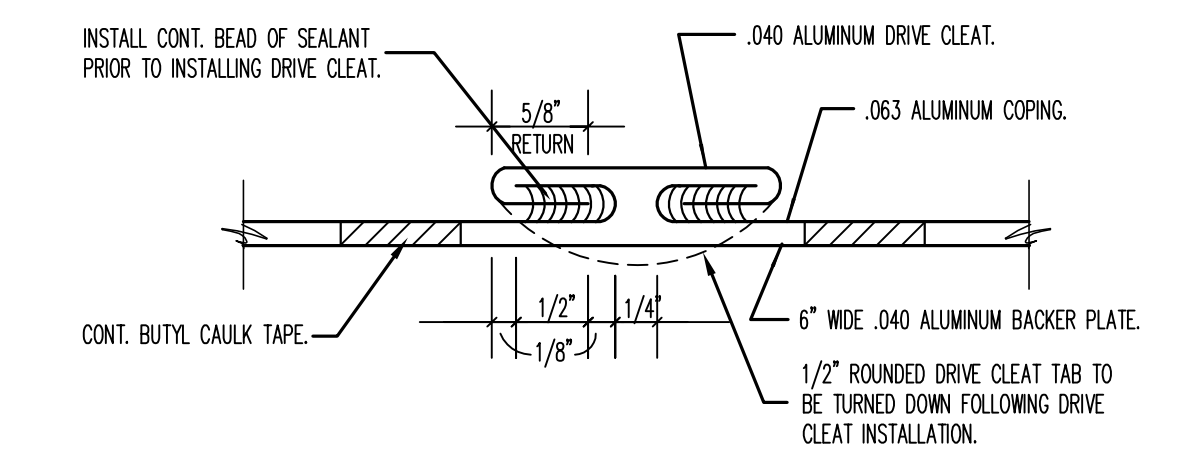
8 BASE FLASHING DETAIL
SCALE: 1-1/2" = 1'-0"



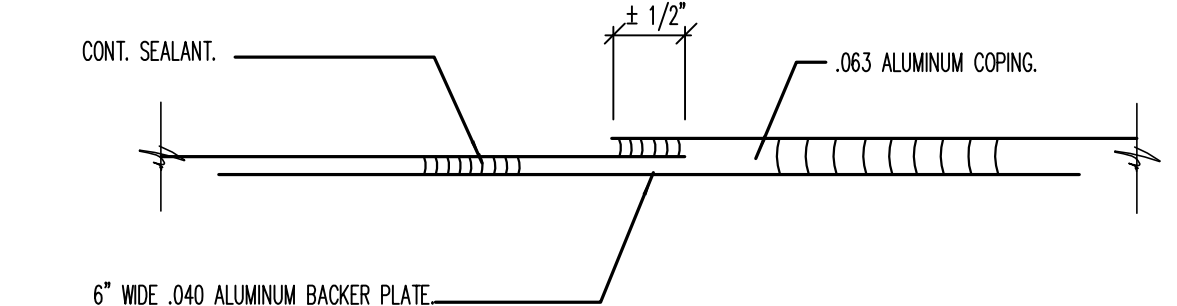
9 WOOD BLOCKING JOINT DETAIL
SCALE: 6" = 1'-0"



10 COUNTERFLASHING LAP JOINT DETAIL
SCALE: 6" = 1'-0"



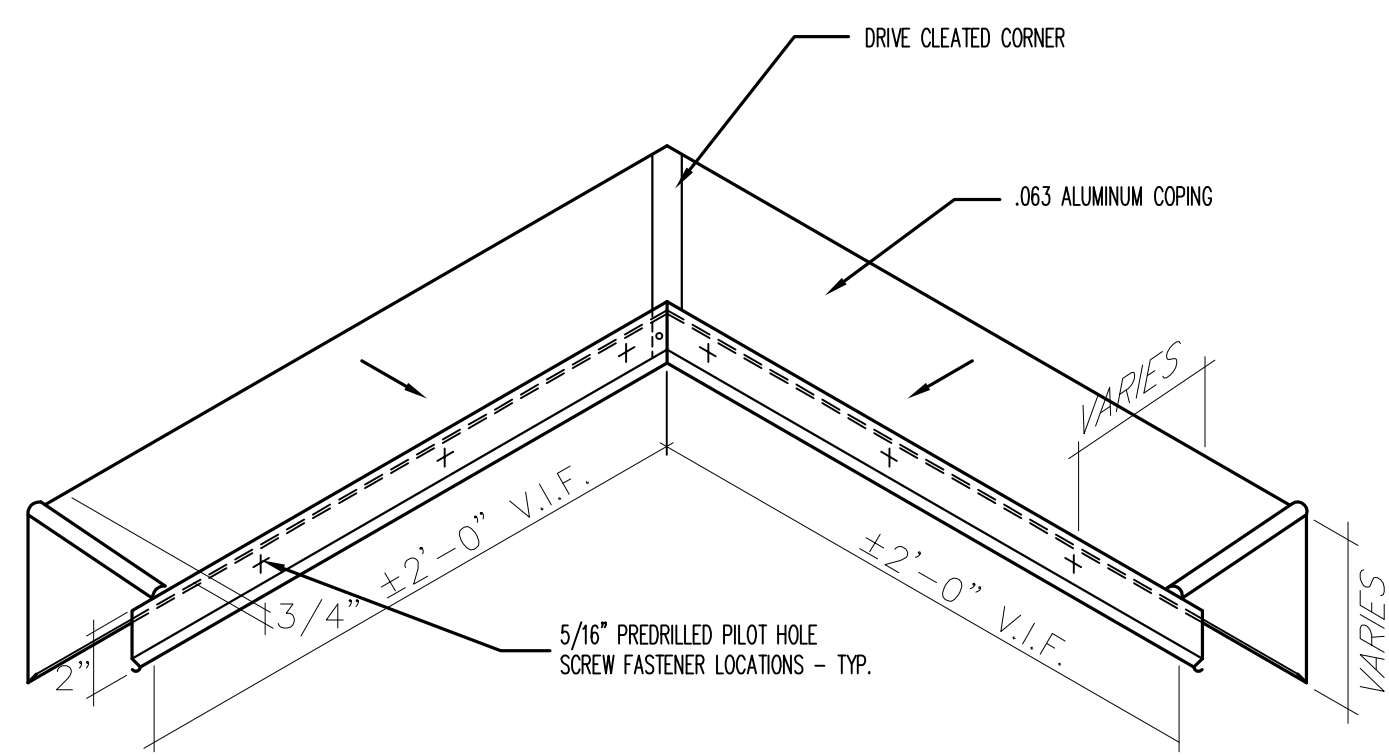
A - HORIZONTAL JOINT DETAIL



B - VERTICAL JOINT DETAIL

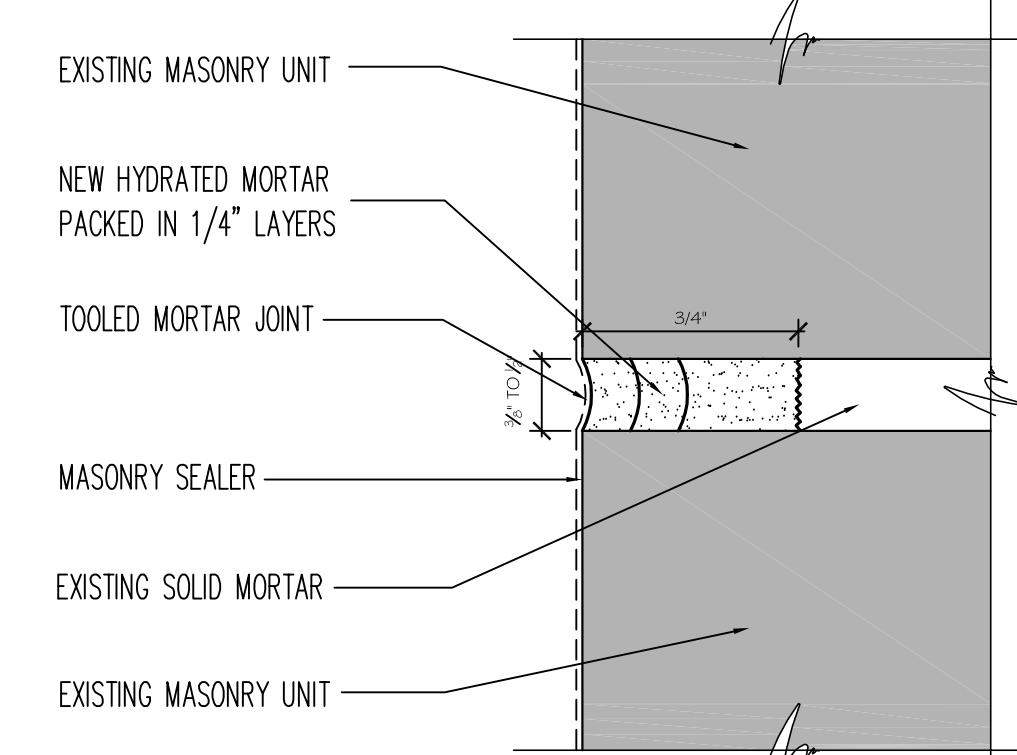
11 SHEET METAL JOINT DETAILS
SCALE: NTS

- NOTES: 1. SHEET METAL CONTRACTOR TO VERIFY ANGLE OF COPING CORNER IN FIELD

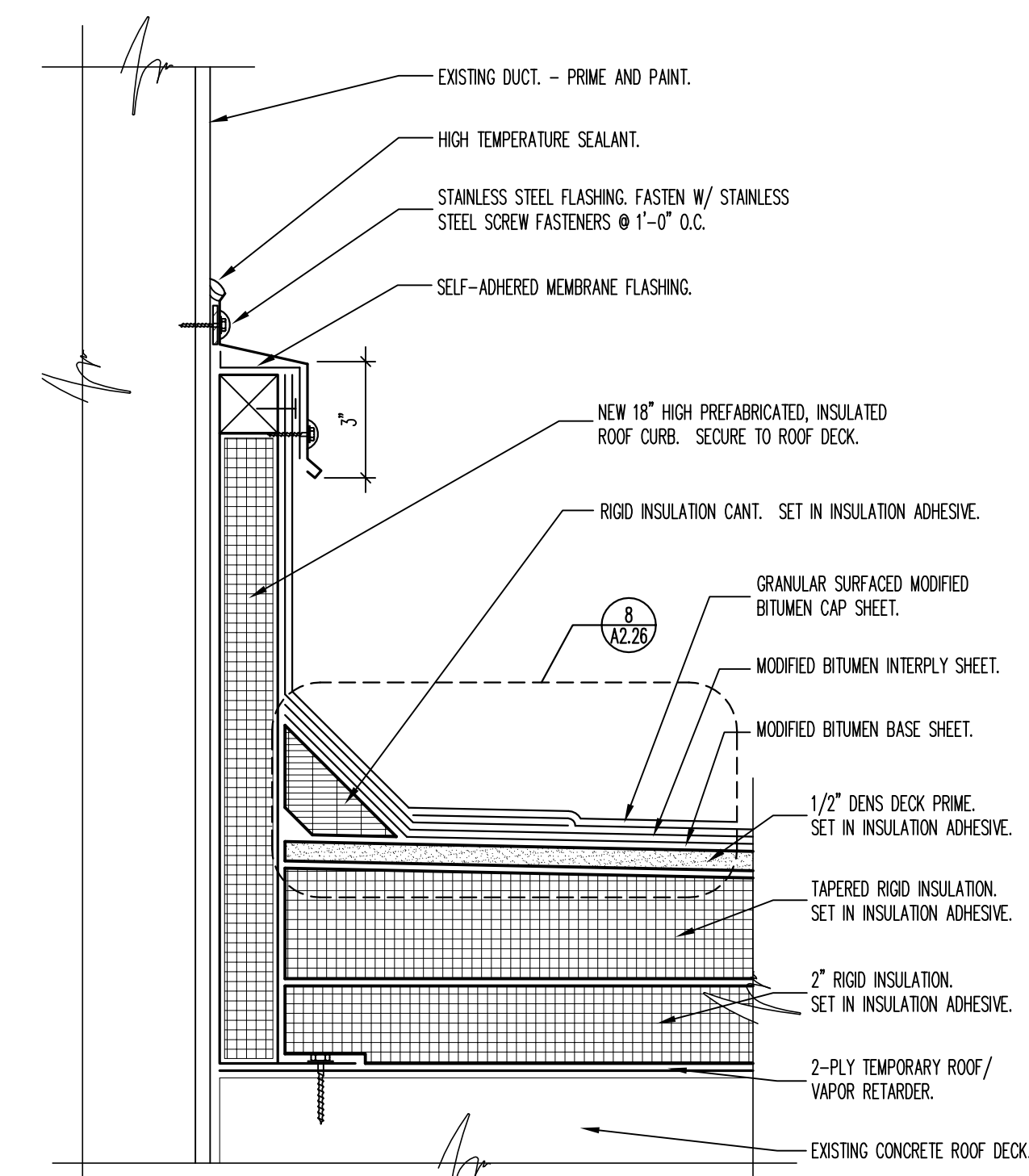


12 OUTSIDE COVING CORNER DETAIL
SCALE: 1-1/2" = 1'-0"

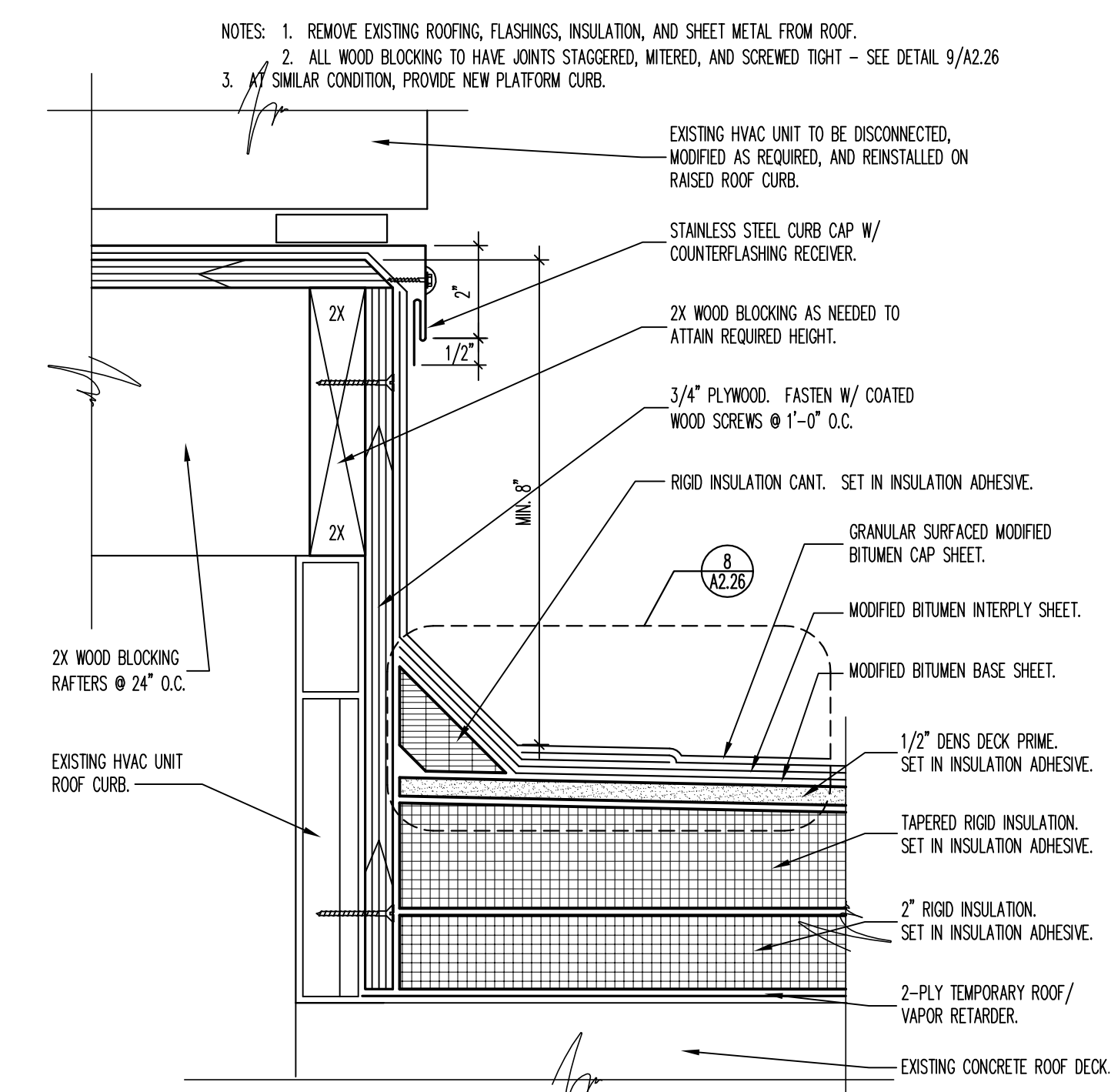
- NOTES: 1. SAW CUT OUT EXISTING MORTAR JOINT TO A MINIMUM DEPTH OF 3/4" OR BEYOND TO SOLID SUBSTRATE.
2. CLEAN & PREHYDRATE JOINT PRIOR TO POINTING



13 TYPICAL MASONRY MORTAR JOINT - REPOINTING DETAIL
SCALE: FULL SCALE



14 NEW DUCT PENETRATION CURB DETAIL
SCALE: 5" = 1'-0"



15 EXISTING ROOF-TOP UNIT CURB EXTENSION DETAIL
SCALE: 5" = 1'-0"

CONSULTANTS:

IRSC Interstate Roof Systems Consultants, Inc.
1275 Davis Road, Suite 132
Elgin, IL 60123
Tel (847) 695-1460 Fax (847) 695-1462
www.irscinc.com

Design Project Number
537-09-164

ARCHITECT/ENGINEERS:

LEGATARCHITECTS sustainability performance design
651 West Washington Blvd. - Suite One
Chicago, Illinois 60661-2122
Tel 312.258.9595 Fax 312.258.1555
www.legat.com

Drawing Title
ROOF DETAILS

Approved Project Director

VAPACHS PLANNING AND ENGINEERING

Project Title
ROOFING REPLACEMENT
PHASE 26

Location
CHICAGO

Date
12/12/12

Checked
TK

Drawn
JC

Construction Project Number
537-12-135

Building Number
BUILDING NO. 11A

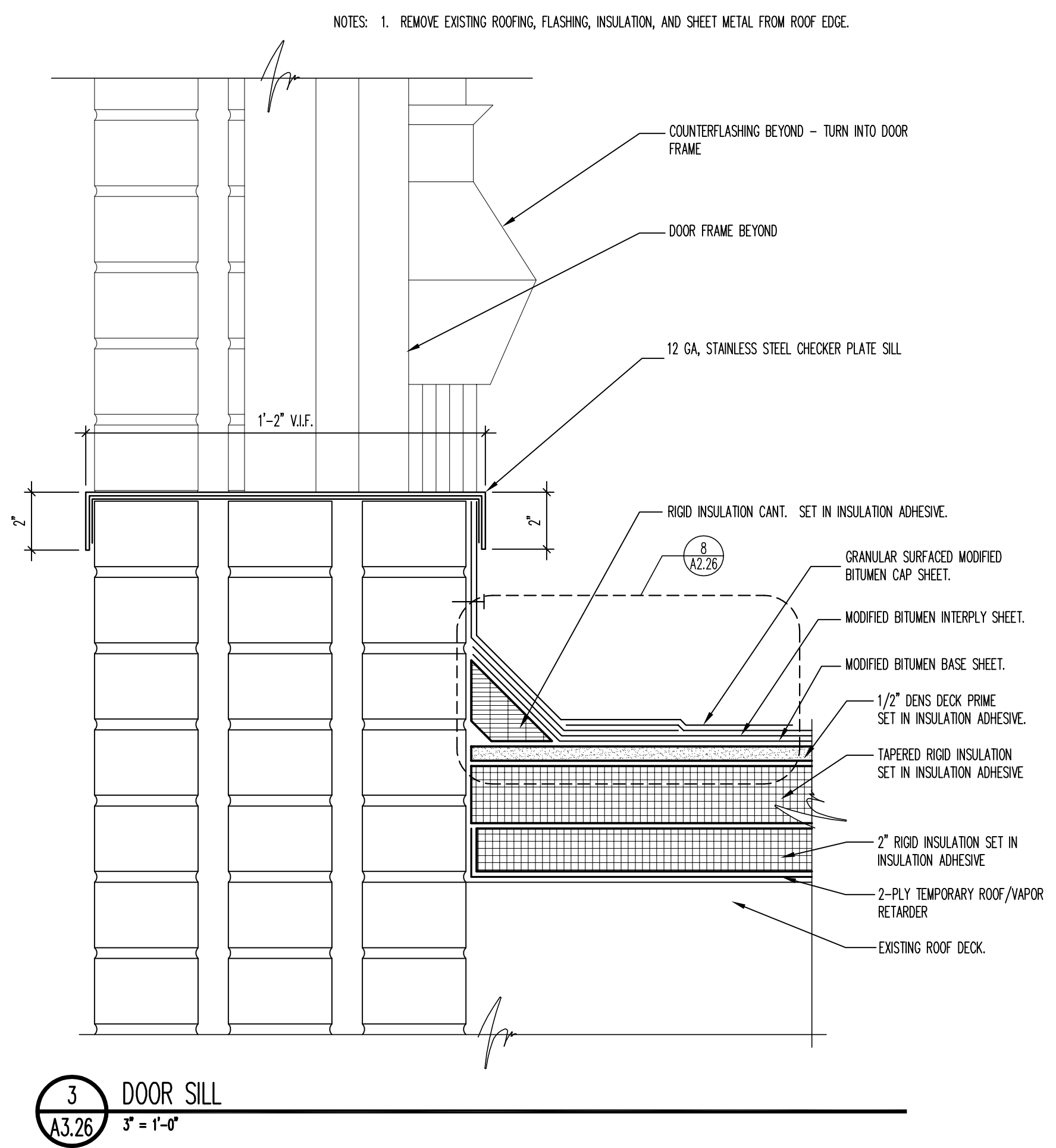
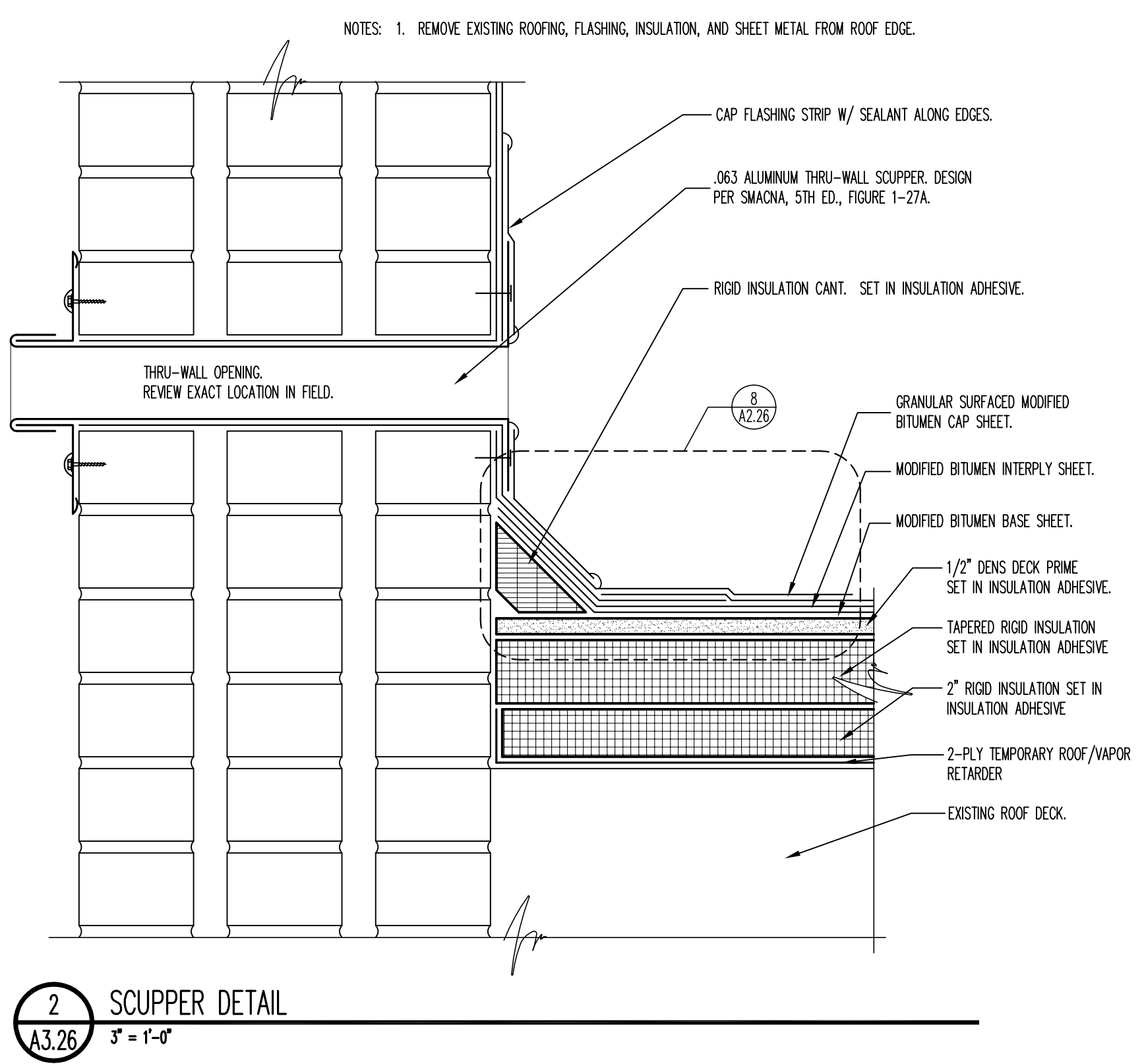
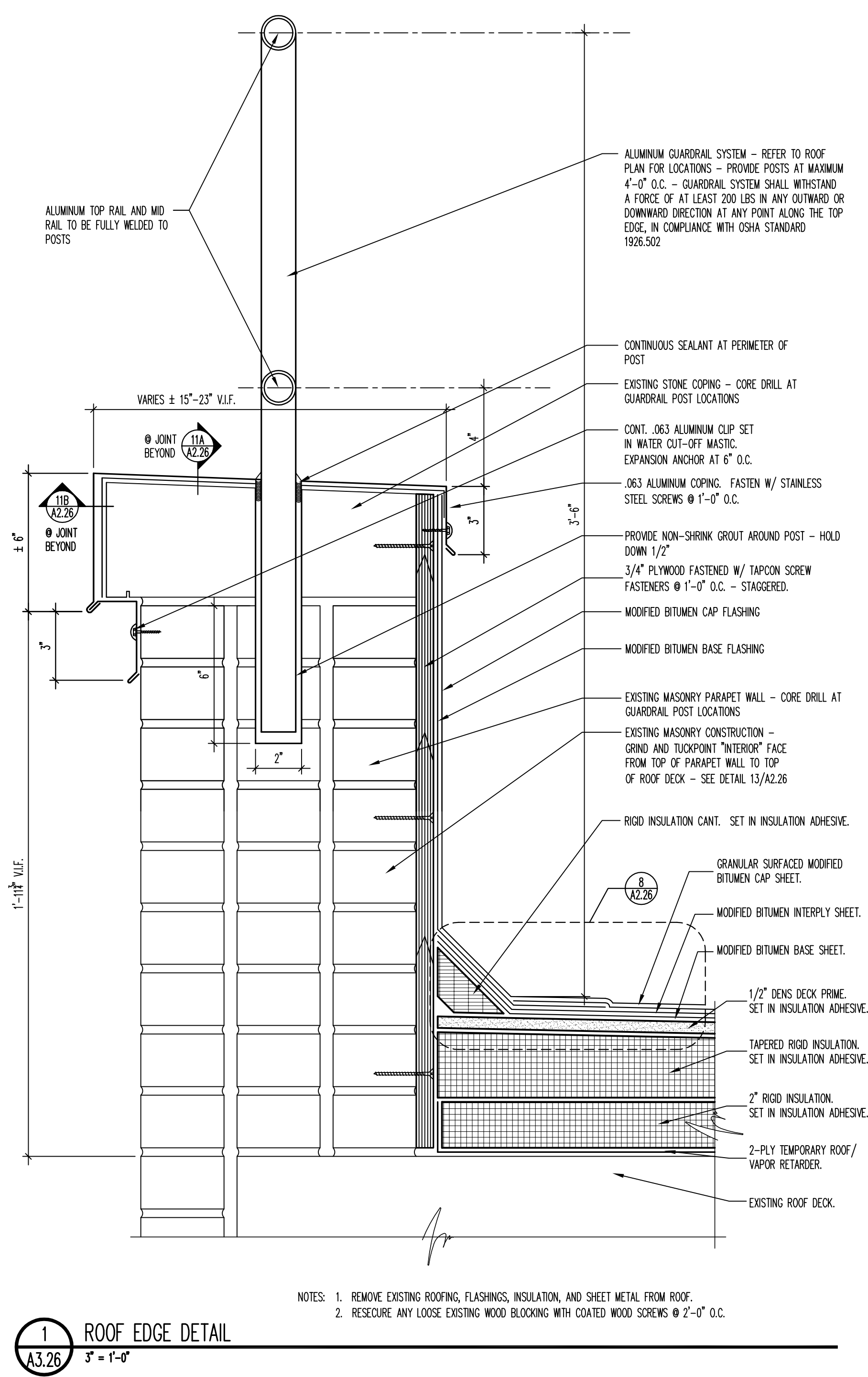
Drawing Number

A2.26
Dwg. 11 of 19

Office of
Construction
and Facilities
Management

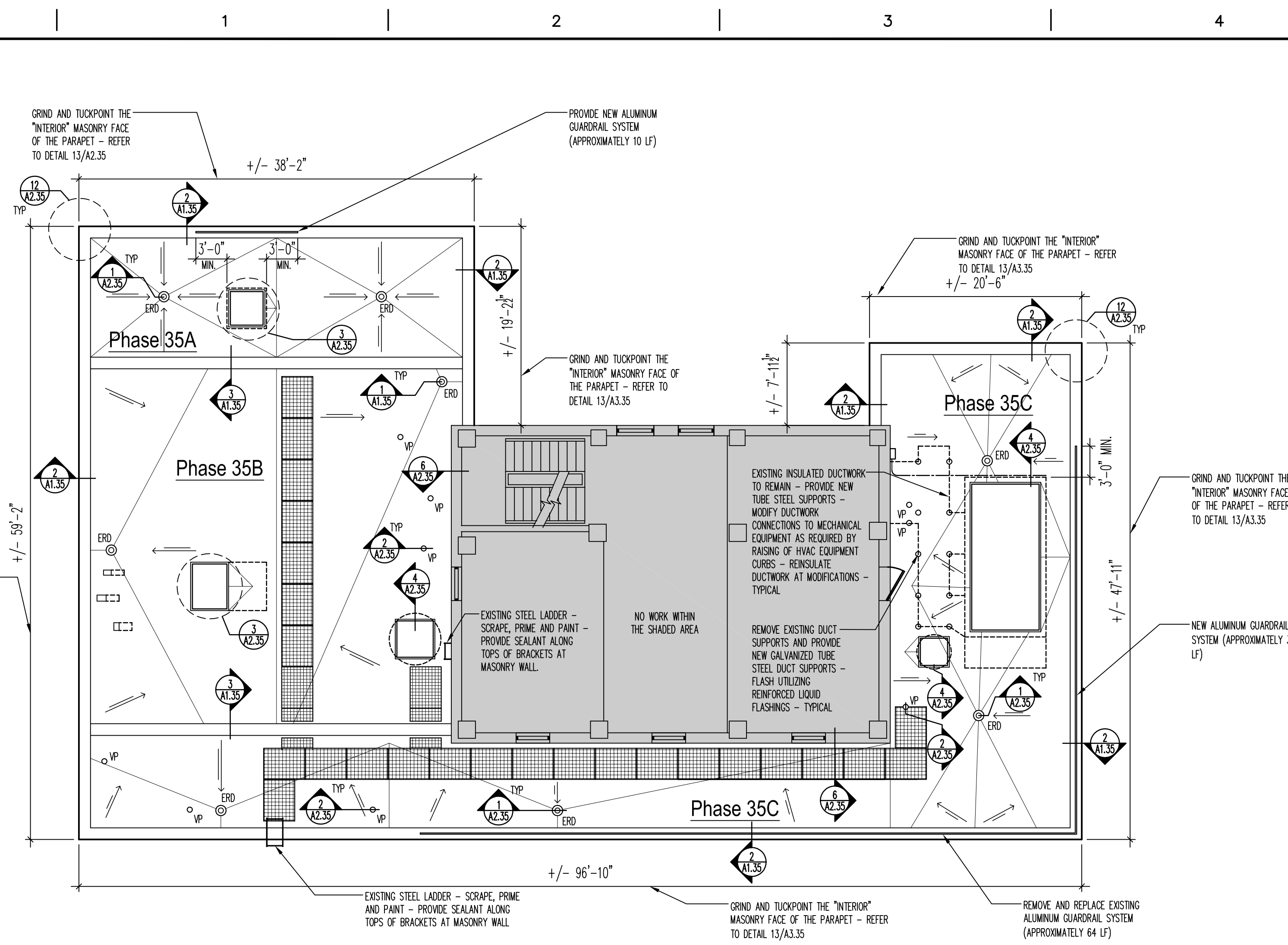
Department of
Veterans Affairs

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

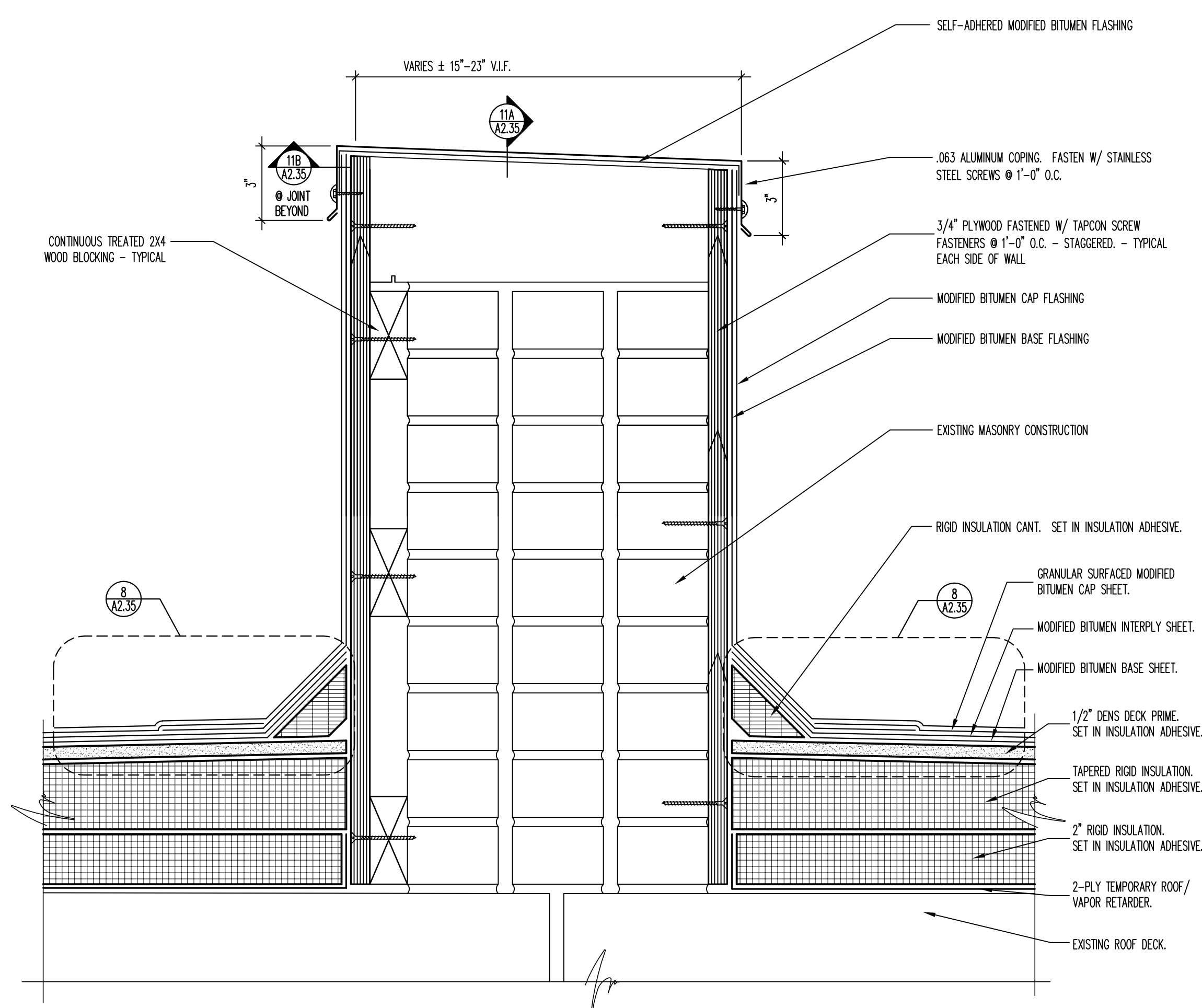


CONSULTANTS:		Design Project Number 537-09-164	ARCHITECT/ENGINEERS:		Drawing Title ROOF DETAILS	Project Title ROOFING REPLACEMENT PHASE 26	Construction Project Number 537-12-135		Office of Construction and Facilities Management Department of Veterans Affairs
IRSC Interstate Roof Systems Consultants, Inc. 1275 Davis Road, Suite 132 Elgin, IL 60123 Tel (847) 695-1460 Fax (847) 695-1462 www.irscinc.com			LEGATARCHITECTS sustainability performance design 651 West Washington Blvd. - Suite One Chicago, Illinois 60661-2122 Tel 312.258.9595 Fax 312.258.1555 www.legat.com		Approved Project Director YAPAHCS PLANNING AND ENGINEERING	Location CHICAGO L.	Building Number BUILDING NO. 11A	Drawing Number A3.26	
BIDDING DOCUMENTS 12/12/12						Date 12/12/12	Checked TK	Drawn JC	
95% DESIGN DOCUMENTS 06/21/12									
Revisions									
Date									
VA FORM 08-6231									

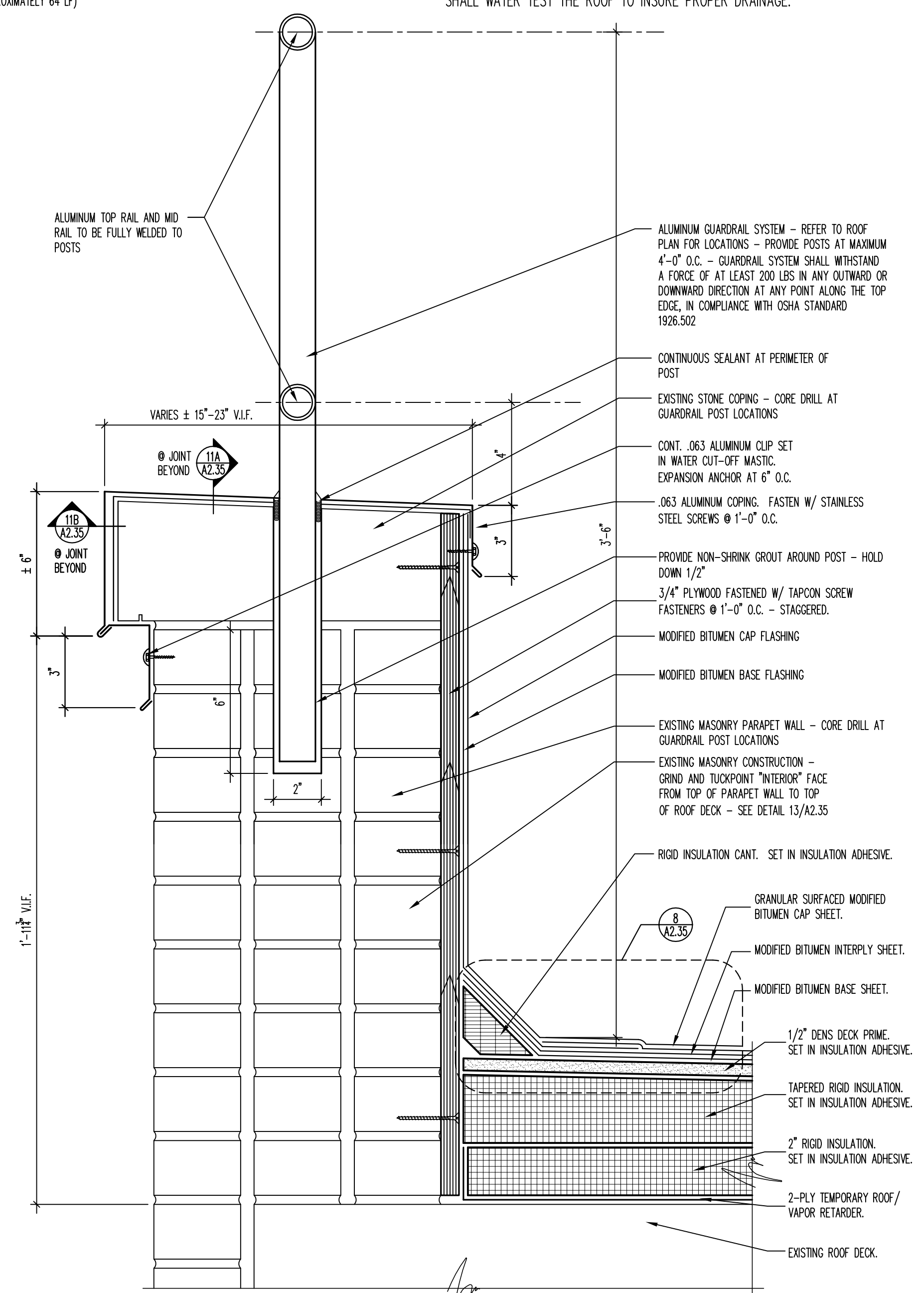
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot



1 PARTIAL ROOF PLAN - PHASE 35
A1.35 1/8" = 1'-0"



3 ROOF EDGE DETAIL
A1.35 3" = 1'-0"



2 ROOF EDGE DETAIL
A1.35 3" = 1'-0"

ROOF CONSTRUCTION NOTES:

REFER TO THE PROJECT SPECIFICATIONS FOR ACCEPTABLE MATERIALS AND INSTALLATION REQUIREMENTS

PHASE 35 (+/- 3539 SF):

- PRIOR TO THE START OF WORK, THE EXISTING LIGHTNING PROTECTION SYSTEM SHALL BE PHOTOGRAPHICALLY SURVEYED TO DOCUMENT THE EXISTING CONDITION. TEMPORARILY REMOVE THE LIGHTING PROTECTION SYSTEM AND REINSTALL UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL REPLACE APPROXIMATELY (5) EXISTING DAMAGED RODS AND ASSOCIATED MOUNTING CLIPS, AS WELL AS APPROXIMATELY (20) LINEAL FEET OF DAMAGED OR CORRODED CABLEING.
- PRIOR TO THE START OF WORK, THE EXISTING DRAIN DOWNSPOUTS AND VENTS ARE TO BE VIDEO SURVEYED TO DOCUMENT THEIR CURRENT CONDITION. CONTRACTOR SHALL SUBMIT A WRITTEN REPORT SUMMARIZING FINDINGS. ALL DRAIN DOWNSPOUTS AND VENT PIPES SHALL BE RODDED CLEAN UPON COMPLETION OF NEW ROOFING SYSTEM.
- REMOVE EXISTING ROOFING, FLASHINGS, INSULATION, AND SHEET METAL DOWN TO DECK.
- REMOVE EXISTING GUARDRAIL SYSTEM.
- REMOVE APPROXIMATELY 2% OF THE EXISTING CONCRETE OR METAL ROOF DECK.
- INSTALL 2 LAYERS OF MODIFIED BITUMEN TEMPORARY ROOF / VAPOR RETARDER.
- REPLACE EXISTING ROOF DRAIN ASSEMBLIES - REFER TO DETAIL 1/A2.35. REPLACE APPROXIMATELY 15'-0" OF DOWNSPOUT PIPING (INCLUDING APPROXIMATELY 5'-0" VERTICAL FROM DRAIN, ELBOW, AND 10'-0" HORIZONTAL) BACK TO NEAREST JOINT. REMOVE EXISTING PLASTER, GYPSUM BOARD OR SUSPENDED ACOUSTICAL TILE CEILING SYSTEM AND SOFFITS AS REQUIRED TO REPLACE DRAINS AND PIPING. PATCH AND PAINT PLASTER AND GYPSUM BOARD CEILINGS AND SOFFITS TO MATCH EXISTING ADJACENT SURFACES. REINSTALL SUSPENDED ACOUSTICAL TILE CEILINGS.
- RAISE HVAC CURBS AND PLUMBING VENTS. PROVIDE NEW CURBS WHERE INDICATED.
- INSTALL PERIMETER ROOF EDGE WOOD BLOCKING. ALL WOOD BLOCKING TO HAVE STAGGERED, MITERED AND SCREW FASTENED JOINTS - REFER TO DETAIL 9/A2.35.
- INSTALL RIGID AND TAPERED RIGID INSULATION AND SADDLES MEETING MINIMUM OVERALL AVERAGE R-VALUE OF 25 WITH A MINIMUM R-VALUE AT ANY LOCATION OF 10 - FIRST LAYER TO BE 2" RIGID INSULATION (SET IN INSULATION ADHESIVE) - FOLLOWING LAYERS TO BE TAPERED RIGID INSULATION (SET IN INSULATION ADHESIVE). ALL INSULATION JOINTS, BOTH HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
- INSTALL 1/2" DENS DECK PRIME - SET IN INSULATION ADHESIVE.
- INSTALL MODIFIED BITUMEN BASE SHEET (MINIMUM THICKNESS 80 MIL) - SET IN COLD ADHESIVE.
- INSTALL MODIFIED BITUMEN INTERPLY SHEET (MINIMUM THICKNESS 85 MIL) - SET IN COLD ADHESIVE.
- INSTALL GRANULAR SURFACED MODIFIED BITUMEN CAP SHEET (MINIMUM THICKNESS 130 MIL) - HEAT WELDED.
- INSTALL .063 ALUMINUM COPINGS AND COUNTERFLASHINGS.
- FLASHING NOTES: (THE FOLLOWING NOTES APPLY TO METAL FLASHING CONDITIONS)
 - ALL METAL FLASHING FLANGES ARE TO BE SET IN SEALANT.
 - FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
 - ISOMETRIC DRAWINGS ARE DIAGRAMMATIC.
 - FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
 - ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
 - NON-EXPOSED NAIL FASTENERS TO BE 1-1/2" RING SHANK ROOFING NAILS.
 - NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE 1-1/2" X 3/16" STAINLESS STEEL SCREWS.
 - SCREW FASTENERS INTO MASONRY ARE TO BE 1-1/4" X 3/16" TAPCONS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
 - EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 3/16" STAINLESS STEEL WITH NEOPRENE WASHERS.
 - FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
- INSTALL NEW ALUMINUM GUARDRAIL SYSTEM.
- UPON COMPLETION OF ROOFING SYSTEM, THE CONTRACTOR SHALL PROVIDE CERTIFICATION THAT THE NEW ROOF SYSTEM MEETS A MINIMUM 1/4" PER FOOT SLOPE AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL WATER TEST THE ROOF TO INSURE PROPER DRAINAGE.

LEGEND

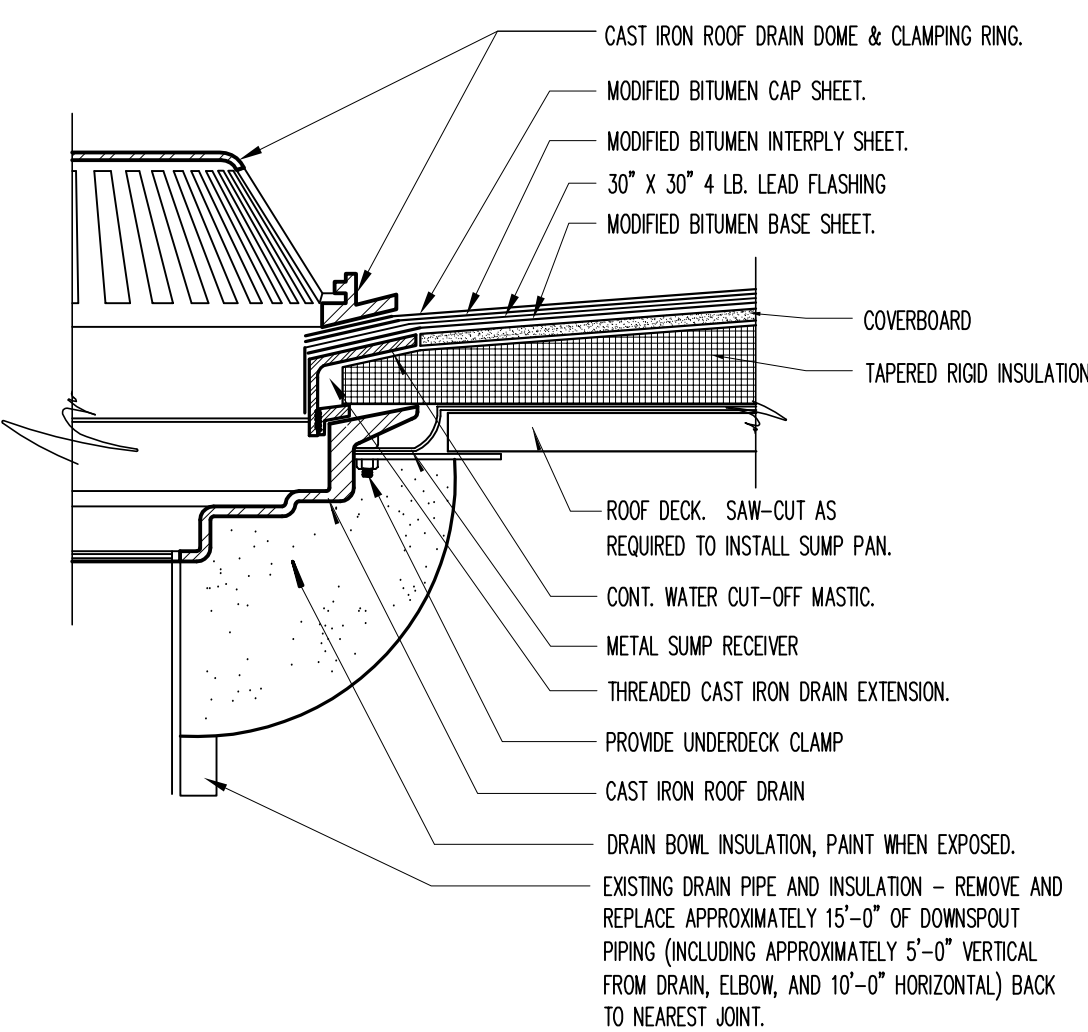
- AREA OF 1/4"/FT. TAPERED ROOFING SYSTEM.
- EXISTING ROOF DRAIN TO BE REPLACED W/ NEW - SEE DETAIL 1/A2.35.
- VENT PIPE ROOF PENETRATION - SEE DETAIL 2/A2.35.
- HVAC UNIT & ROOF CURB - SEE DETAIL 3/A2.35.
- METAL COPING - SEE DETAILS 11 & 12/A2.35.
- EXISTING ELECTRICAL CONDUIT TO BE DISCONNECTED, MODIFIED AS REQUIRED, AND REINSTALLED ON PIPE SUPPORT CURBS AT A MINIMUM OF 8'-0" O.C. - SEE DETAIL 5/A2.35.
- 3'-0" X 4'-0" WALKWAY PAD

GENERAL NOTES:

- EXISTING ROOFING MATERIALS TO BE REMOVED CAREFULLY SO AS NOT TO DAMAGE THE EXISTING ROOF DECK. CONTRACTOR SHALL PROVIDE FOR PATCHING AND REPAIR OF 2% OF THE EXISTING CONCRETE ROOF DECK.
- ALL EXISTING ROOF PENETRATIONS INCLUDING ROOF CURBS AND RAILS, VENT PIPES, GUY WIRE SUPPORTS, ETC., ARE TO BE EXTENDED TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE OR AS RECOMMENDED BY ROOFING MANUFACTURER, WHICHEVER IS GREATER.
- CONTRACTOR SHALL PROVIDE HOIST FOR REMOVAL OF ALL DEMOLISHED MATERIAL FROM THE ROOF AND FOR DELIVERY OF NEW MATERIAL AND EQUIPMENT TO THE ROOF. THE OWNER'S ELEVATORS SHALL BE USED FOR TRANSPORT OF PEOPLE ONLY, AND SHALL NOT BE USED TO TRANSPORT MATERIAL OR EQUIPMENT OF ANY KIND.
- SITE NOTES:
 - REPAIR CONCRETE AREAS DAMAGED DURING CONSTRUCTION.
 - REPAIR BITUMINOUS AREAS DAMAGED DURING CONSTRUCTION.
 - REPAIR ALL LANDSCAPING DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT WINDOWS ADJACENT TO WORK AREA ONE FLOOR BELOW AND TWO FLOORS ABOVE. WINDOWS SHALL BE COVERED WITH PLASTIC FROM EXTERIOR AND SEALED.
- THE OWNER SHALL ABATE ANY DISCOVERED ASBESTOS CONTAINING MATERIAL. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY SUCH DISCOVERED MATERIAL.
- ALL EXISTING AIR INTAKES ADJACENT TO THE WORK AREA SHALL BE COVERED WITH PHOTOCATALYTIC FILTERS OR CARBON BLOCK FILTERS.
- CONTRACTOR SHALL COORDINATE SHUT-DOWN OF ALL HVAC UNITS, ANTENNA, SATELLITE DISHES AND ANY OTHER ROOFTOP EQUIPMENT WITH THE VA.

CONSULTANTS: Interstate Roof Systems Consultants, Inc. 1275 Davis Road, Suite 132 Elgin, IL 60123 Tel (847) 695-1460 Fax (847) 695-1462 www.irscinc.com		Design Project Number 637-09-164	ARCHITECT/ENGINEERS: sustainability performance design 651 West Washington Blvd. - Suite One Chicago, Illinois 60661-2122 Tel 312.258.9595 Fax 312.258.1555 www.legat.com	Drawing Title ROOF PLAN, NOTES AND ROOF DETAILS Approved Project Director YAPAHCS PLANNING AND ENGINEERING	Project Title ROOFING REPLACEMENT PHASE 35 Location CHICAGO Date 12/12/12 Checked TK Drawn LW	Construction Project Number 537-12-135 Building Number BUILDING NO. 11 B Drawing Number A1.35 Dec. 13 of 19	Office of Construction and Facilities Management Department of Veterans Affairs
---	--	--	---	---	--	--	---

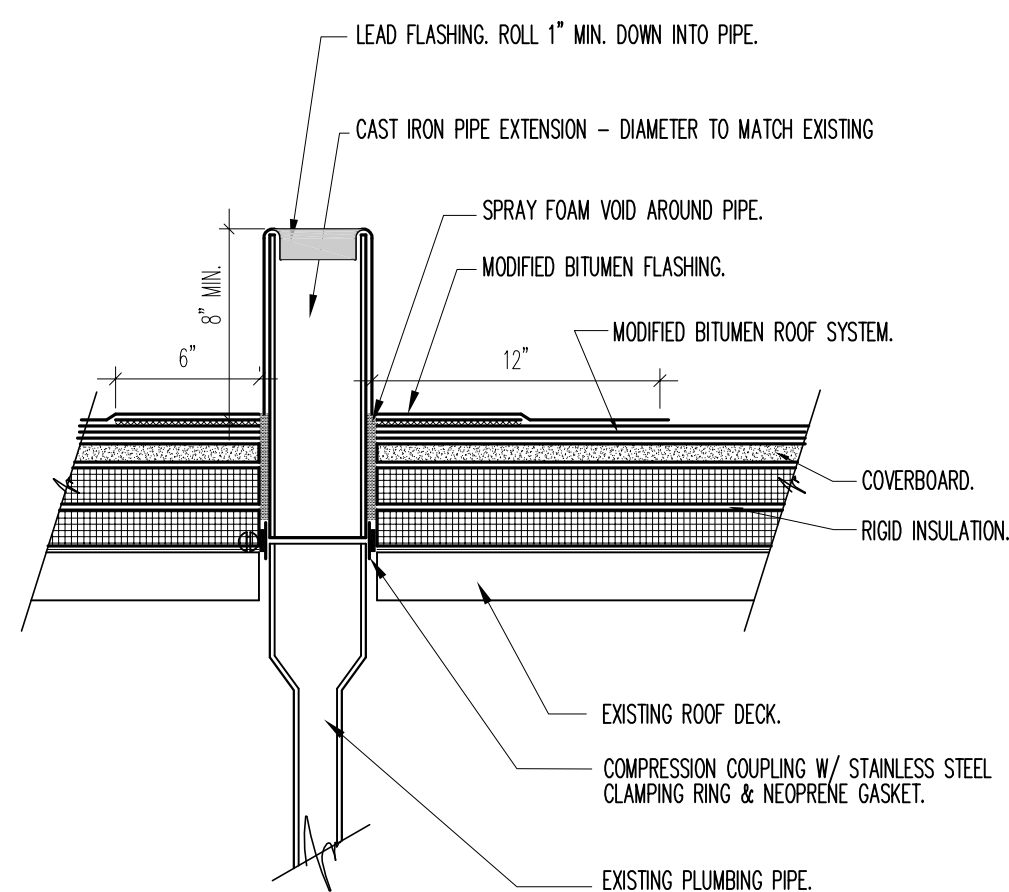
- NOTES: 1. SLIGHTLY BEVEL TOP EDGE OF BASE INSULATION AND INSERT UNDER DRAIN EXTENSION RING. TIGHTEN EXTENSION RING SO THAT TOP OF SAME IS FLUSH WITH TOP OF BASE INSULATION.
2. CUT TOP INSULATION LAYER PERPENDICULAR TO DRAIN CLAMPING RING - DO NOT REVEL.
3. INSTALL 30" X 30", 4 LBS. LEAD FLASHING AT DRAIN. PRIME AND DRY BOTH SIDES PRIOR TO INSTALLATION IN ROOFING MASTIC.



1 REPLACEMENT ROOF DRAIN DETAIL

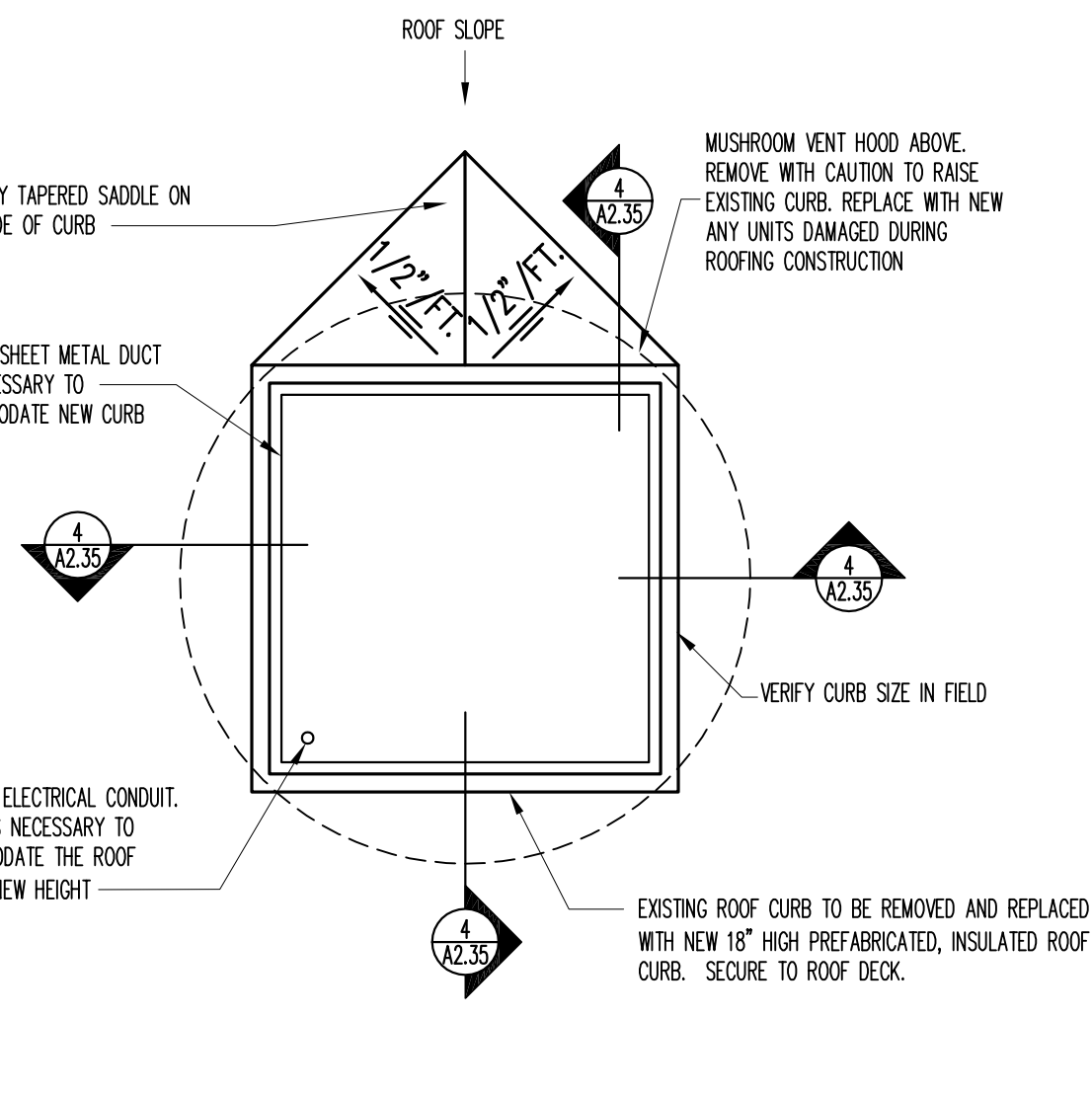
SCALE: 1-1/2" = 1'-0"

- NOTES: 1. EXISTING PLUMBING VENT TO BE CUT OFF JUST ABOVE ROOF DECK & NEW CAST IRON EXTENSION INSTALLED PRIOR TO INSTALLING NEW RIDG INSULATION.
2. PRIME & DRY BOTH SIDES OF THE LEAD FLANGE PRIOR TO INSTALLATION.
3. SET LEAD FLANGE IN ROOF CEMENT.



2 VENT PIPE EXTENSION DETAIL

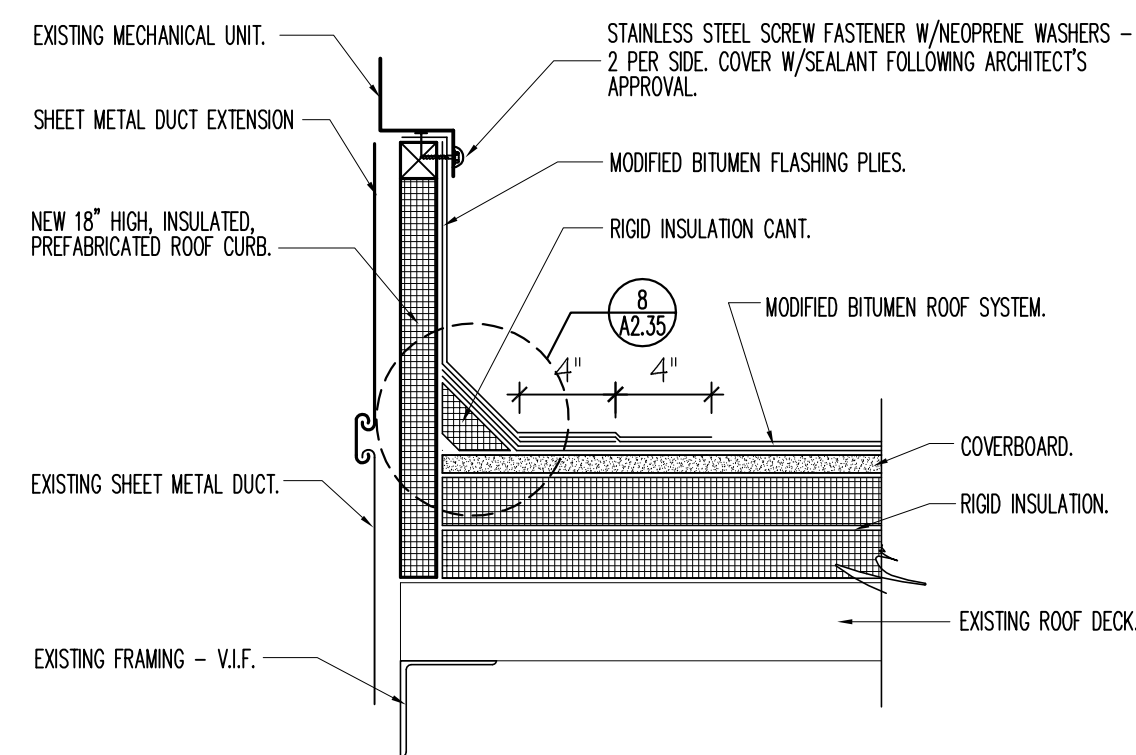
SCALE: 1-1/2" = 1'-0"



3 ROOF CURB PLAN DETAIL

SCALE: 1-1/2" = 1'-0"

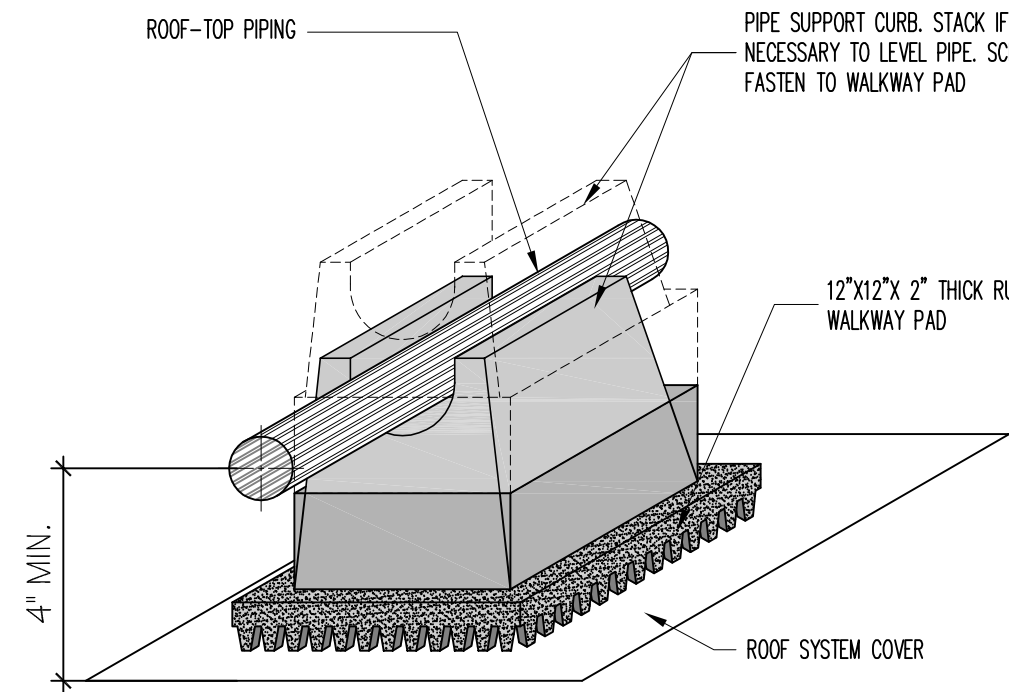
- NOTES: 1. EXISTING ROOF CURB TO BE REMOVED AND REPLACED WITH NEW.
2. RAISE EXISTING ROOF TOP UNIT W/CAUTION. EXTEND ELECTRICAL WIRING, CONDUIT, & SHEET METAL DUCTS AS NECESSARY TO ATTAIN REQUIRED HEIGHT. REPLACE W/NEW ANY UNITS DAMAGED DURING ROOFING CONSTRUCTION.



4 ROOF CURB REPLACEMENT DETAIL

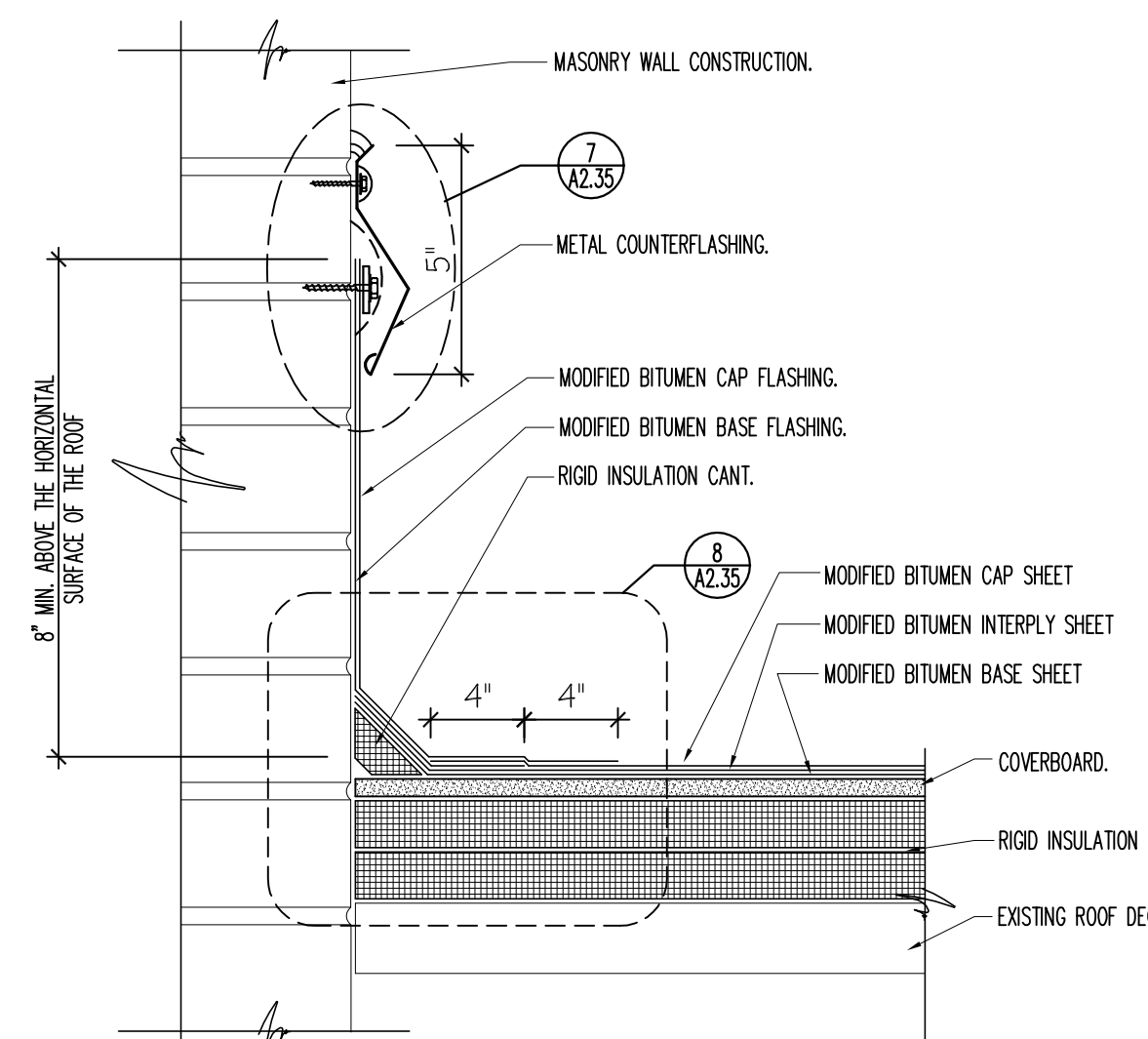
SCALE: 1-1/2" = 1'-0"

- NOTE: 1. PIPE SUPPORT CURBS TO BE PLACED A MAXIMUM OF 8'-0\"/>



5 PIPE SUPPORT CURB DETAIL

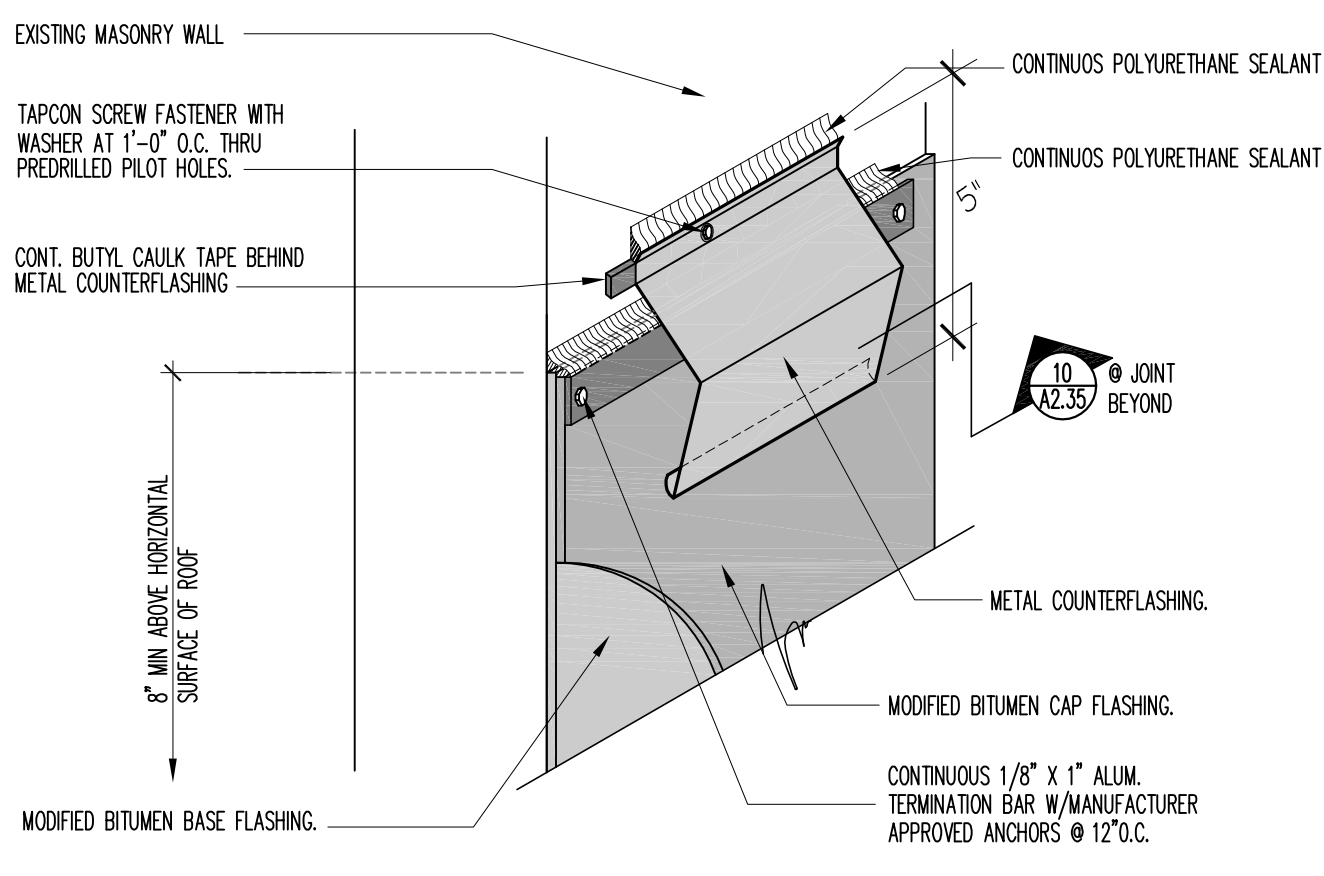
SCALE: 1/2" = 1'-0"



6 ROOF TERMINATION DETAIL

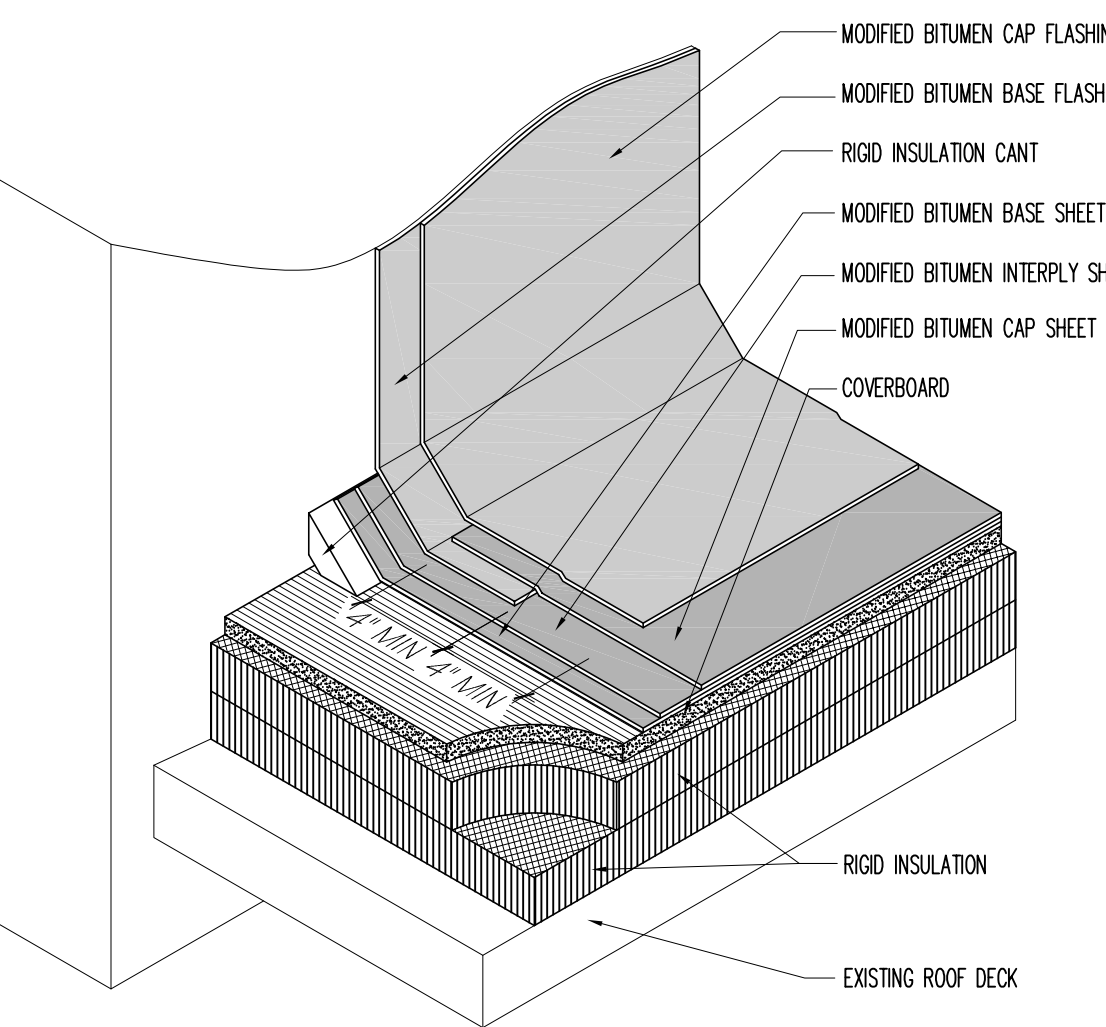
SCALE: 1-1/2" = 1'-0"

- NOTE: 1. TERMINATION BAR AND COUNTERFLASHING ARE TO BE INSTALLED HORIZONTALLY ACROSS MASONRY WALL. COORDINATE HEIGHT OF FLASHINGS SO THAT AT HIGHEST POINT OF INSULATION, THE TOP OF THE FLASHING IS 5\"/>



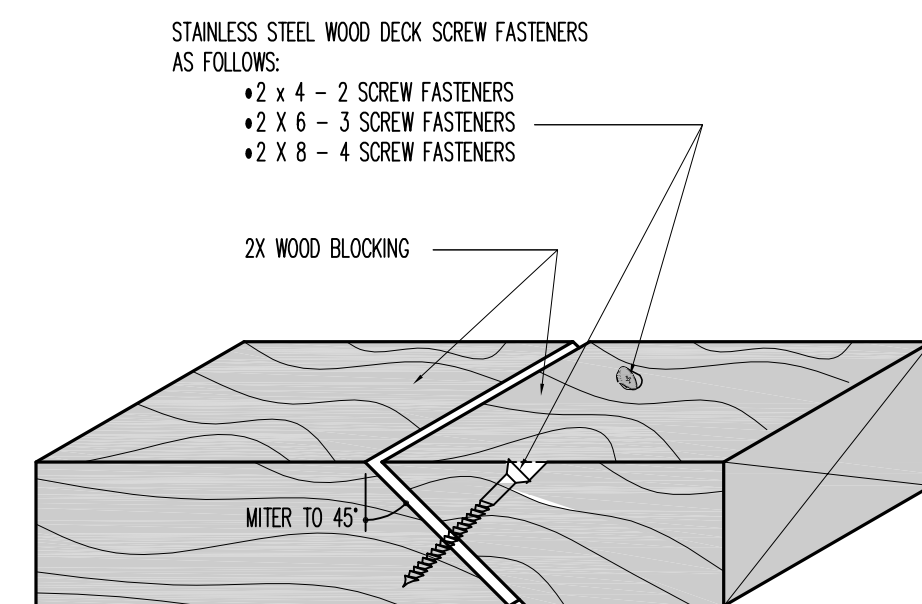
7 ROOF FLASHING TERMINATION AND COUNTERFLASHING DETAIL

SCALE: 3\"/>



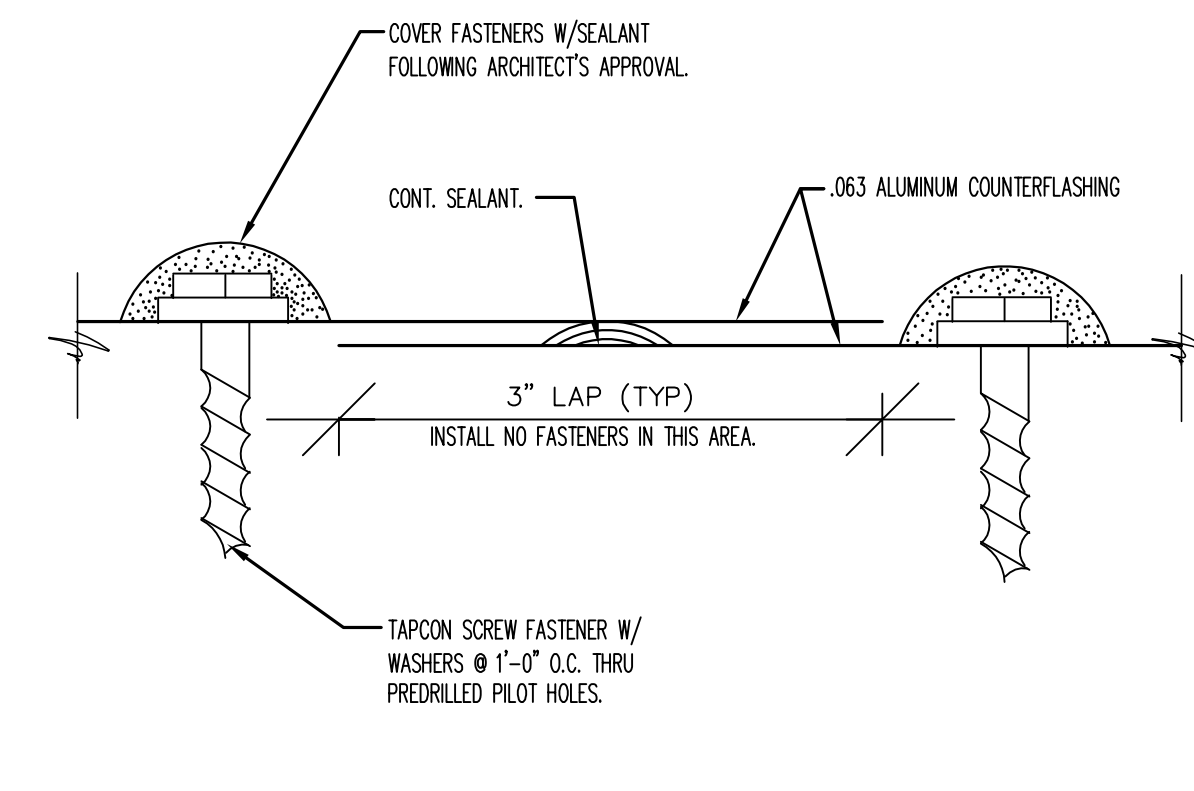
8 BASE FLASHING DETAIL

SCALE: 1-1/2" = 1'-0"



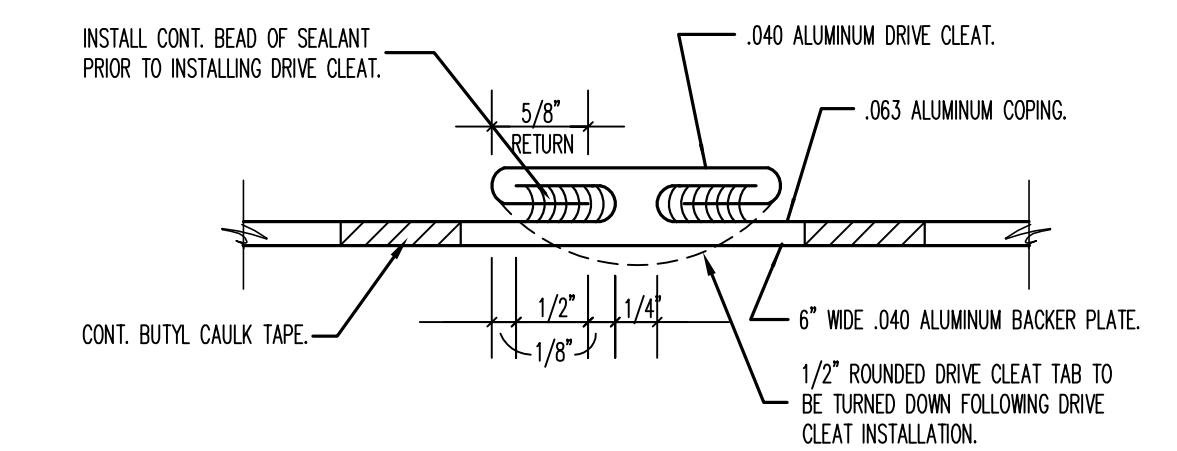
9 WOOD BLOCKING JOINT DETAIL

SCALE: 6\"/>



10 COUNTERFLASHING LAP JOINT DETAIL

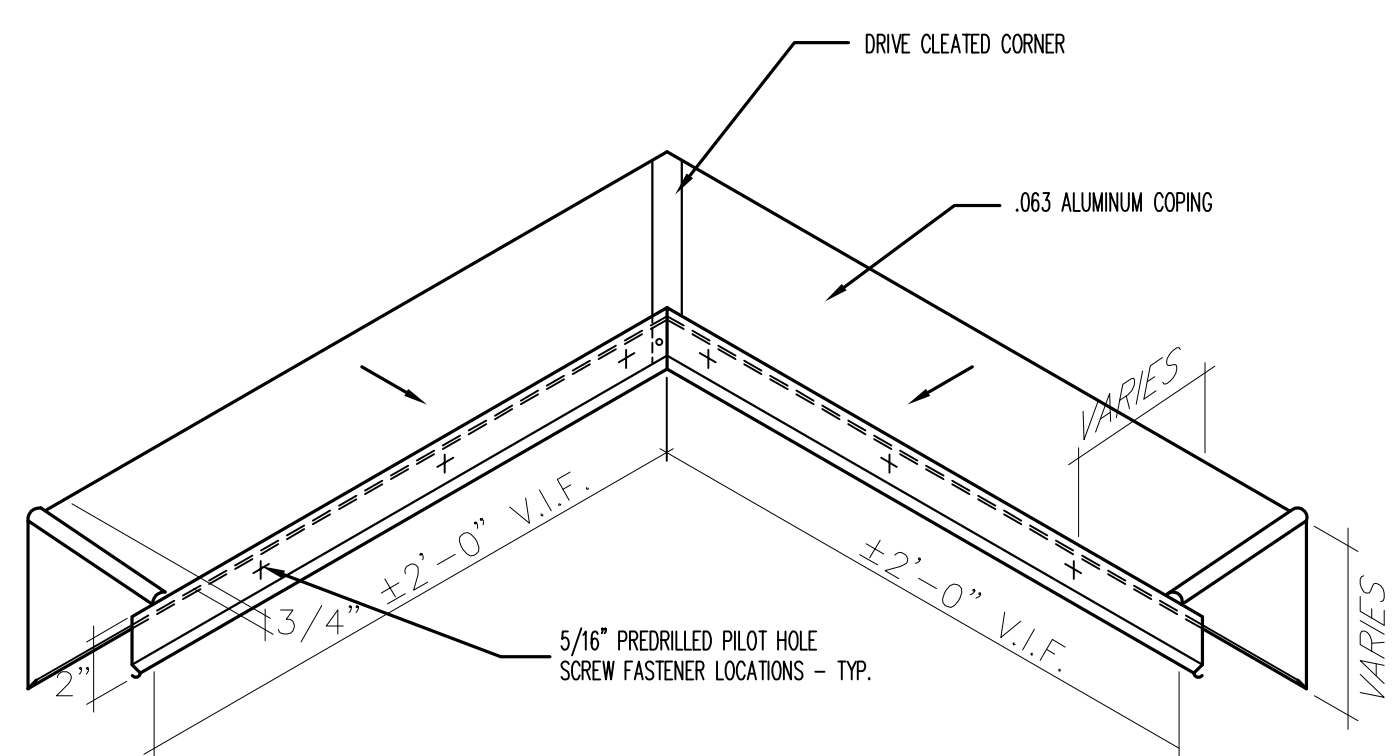
SCALE: 6\"/>



11 SHEET METAL JOINT DETAILS

SCALE: NTS

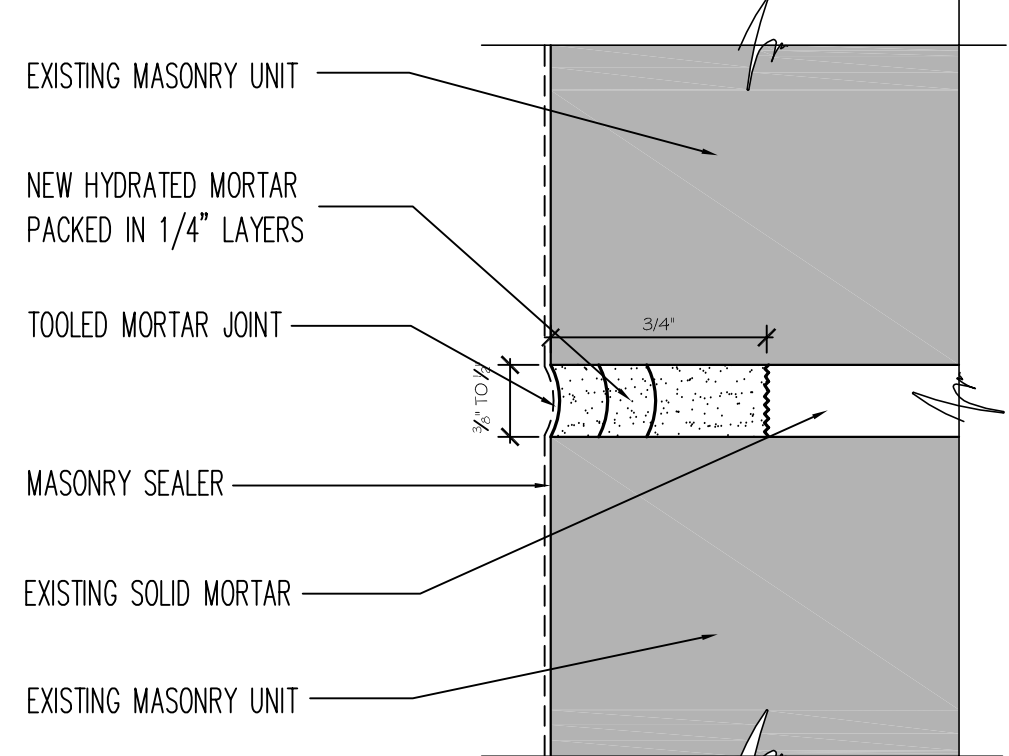
- NOTES: 1. SHEET METAL CONTRACTOR TO VERIFY ANGLE OF COPING CORNER IN FIELD



12 OUTSIDE COPING CORNER DETAIL

SCALE: 1-1/2" = 1'-0"

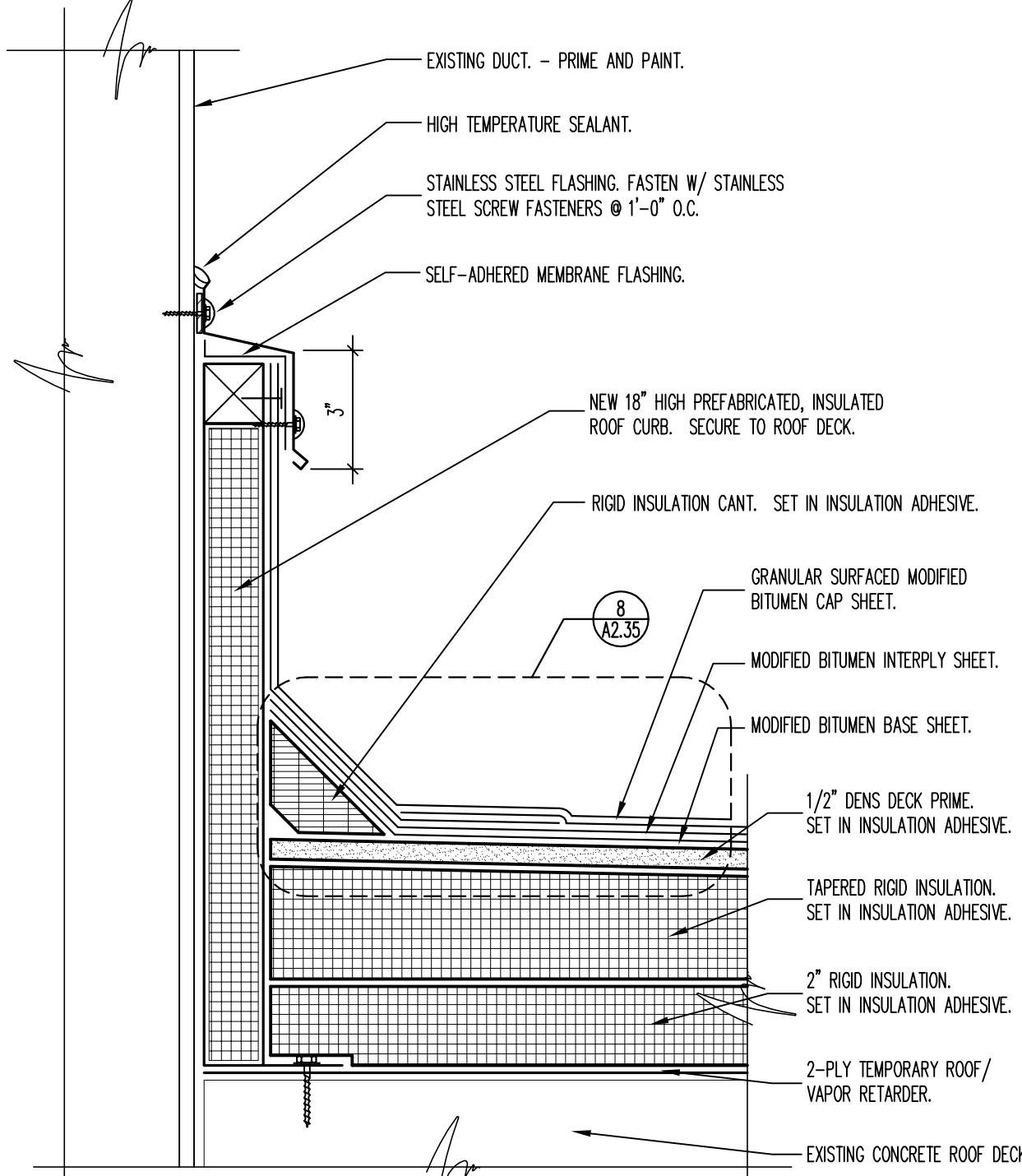
- NOTES: 1. SAW CUT OUT EXISTING MORTAR JOINT TO A MINIMUM DEPTH OF 3/4\"/>



13 TYPICAL MASONRY MORTAR JOINT - REPOINTING DETAIL

SCALE: FINISH SCALE

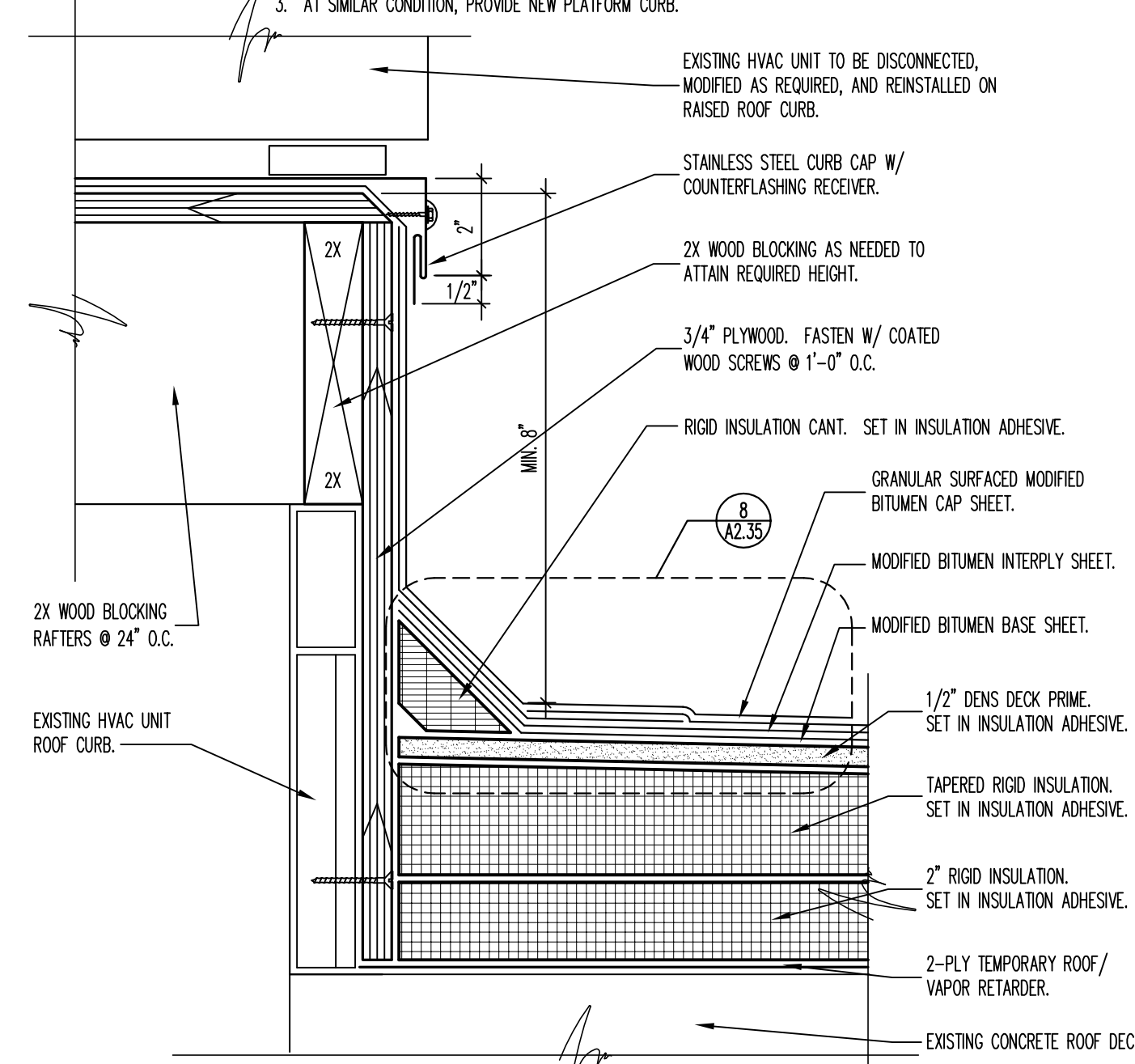
- NOTES: 1. REMOVE EXISTING ROOFING, FLASHINGS, INSULATION, ROOF CURB, AND SHEET METAL FROM ROOF.



14 NEW DUCT PENETRATION CURB DETAIL

SCALE: 3\"/>

- NOTES: 1. REMOVE EXISTING ROOFING, FLASHINGS, INSULATION, AND SHEET METAL FROM ROOF.
2. ALL WOOD BLOCKING TO HAVE JOINTS STAGGERED, WATERED, AND SCREWED TIGHT - SEE DETAIL 9/A2.35.
3. AT SIMILAR CONDITION, PROVIDE NEW PLATFORM CURB.



15 EXISTING ROOF-TOP UNIT CURB EXTENSION DETAIL

SCALE: 3\"/>

CONSULTANTS:



Interstate Roof Systems Consultants, Inc.
1275 Davis Road, Suite 132
Elgin, IL 60123
Tel (847) 695-1460 Fax (847) 695-1462
www.irscinc.com

Design Project Number
537-09-164

ARCHITECT/ENGINEERS:

LEGATARCHITECTS

sustainability performance design

651 West Washington Blvd. - Suite One
Chicago, Illinois 60661-2122
Tel 312.258.9595 Fax 312.258.1555
www.legat.com

Drawing Title
ROOF DETAILS

Approved Project Director

VAPACHS PLANNING AND ENGINEERING

Project Title
ROOFING REPLACEMENT
PHASE 35

Location
CHICAGO

Date
12/12/12

Checked
TK

Drawn
LW

Drawing Number
A2.35

Aug. 14 of 19

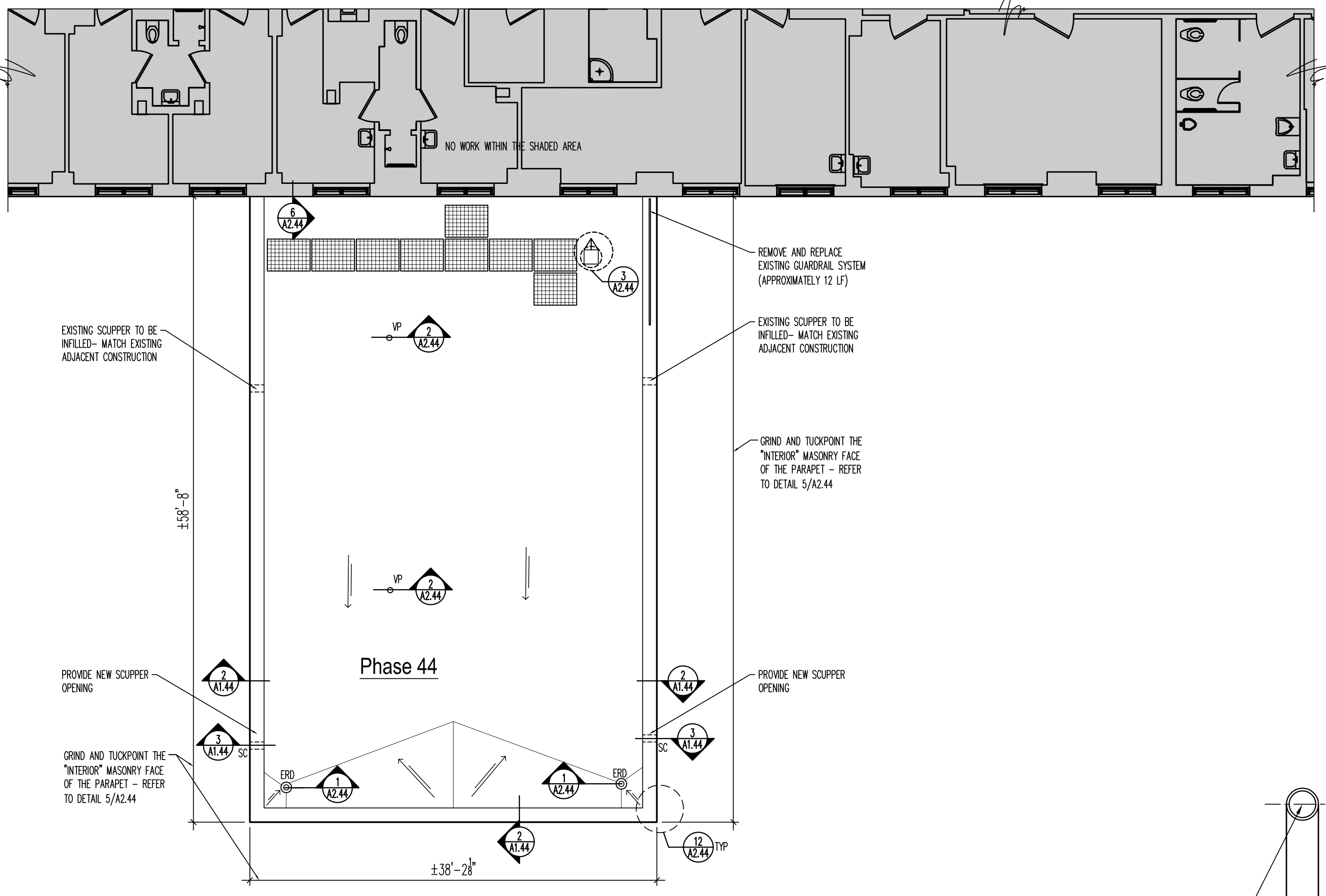
Construction Project Number
537-12-135

Building Number
BUILDING NO. 11 B

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot

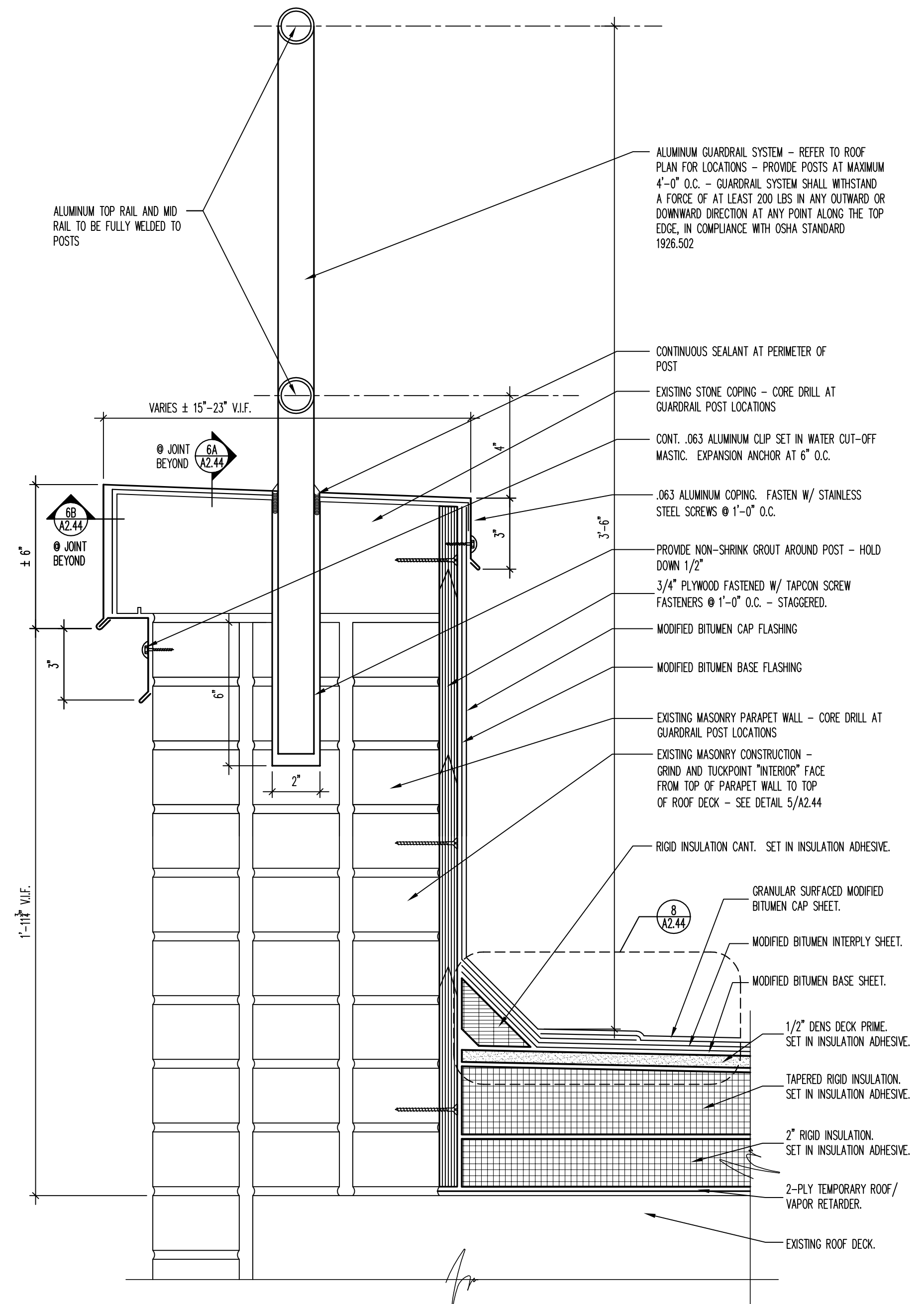


1 PARTIAL ROOF PLAN - PHASE 44
1/8" = 1'-0"

ROOF CONSTRUCTION NOTES:

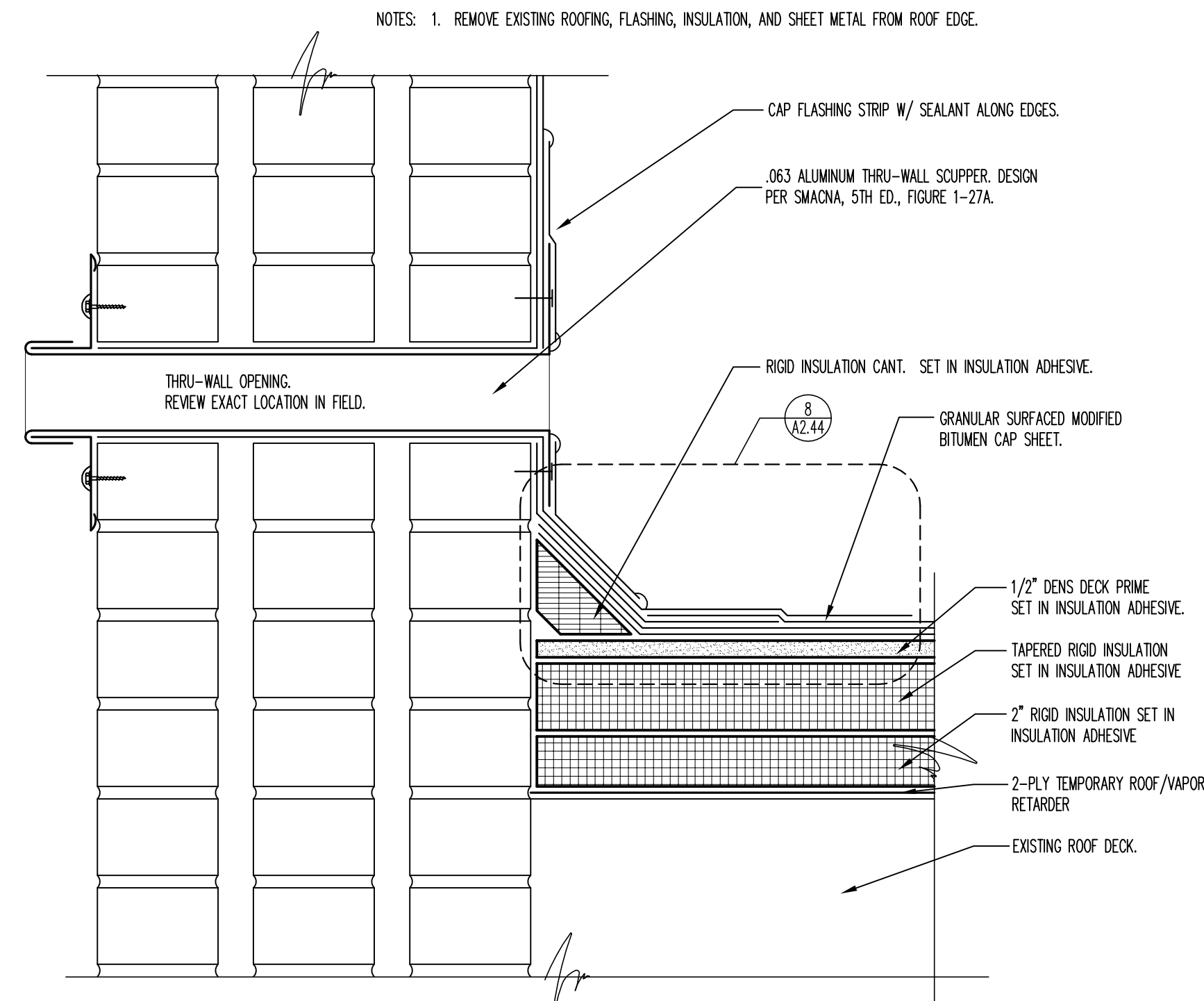
REFER TO THE PROJECT SPECIFICATIONS FOR ACCEPTABLE MATERIALS AND INSTALLATION REQUIREMENTS

- PHASE 44 (+/- 2,285 SF)
- REMOVE EXISTING ROOFING, FLASHINGS, INSULATION, AND SHEET METAL DOWN TO DECK.
 - INSTALL 2 LAYERS OF MODIFIED BITUMEN TEMPORARY ROOF / VAPOR RETARDER.
 - REPLACE EXISTING ROOF DRAIN ASSEMBLIES - REFER TO DETAIL 1/A2.44. REPLACE APPROXIMATELY 15'-0" OF DOWNSPOUT PIPING (INCLUDING APPROXIMATELY 5'-0" VERTICAL FROM DRAIN, ELBOW, AND 10'-0" HORIZONTAL) BACK TO NEAREST JOINT. RAISE HVAC CURBS AND PLUMBING VENTS. PROVIDE NEW CURBS WHERE INDICATED. REMOVE EXISTING PLASTER, GYPSUM BOARD OR SUSPENDED ACOUSTICAL TILE CEILING SYSTEM AND SOFFITS AS REQUIRED TO REPLACE DRAINS AND PIPING. PATCH AND PAINT PLASTER AND GYPSUM BOARD CEILINGS AND SOFFITS TO MATCH EXISTING ADJACENT SURFACES. REINSTALL SUSPENDED ACOUSTICAL CEILING TILE CEILINGS.
 - PERIMETER ROOF EDGE WOOD BLOCKING.
 - RIGID AND TAPERED RIGID INSULATION AND SADDLES MEETING MINIMUM OVERALL AVERAGE R-VALUE OF 25 WITH A MINIMUM R-VALUE AT ANY LOCATION OF 10 - FIRST LAYER TO BE 2" RIGID INSULATION (SET IN INSULATION ADHESIVE) - FOLLOWING LAYERS TO BE TAPERED RIGID INSULATION (SET IN INSULATION ADHESIVE).
 - 1/2" DENS DECK PRIME - SET IN INSULATION ADHESIVE.
 - MODIFIED BITUMEN BASE SHEET (MINIMUM THICKNESS 80 MIL) - SET IN COLD ADHESIVE.
 - MODIFIED BITUMEN INTERPLY SHEET (MINIMUM THICKNESS 85 MIL) - SET IN COLD ADHESIVE.
 - GRANULAR SURFACED MODIFIED BITUMEN CAP SHEET (MINIMUM THICKNESS 130 MIL) - HEAT WELDED.
 - .063 ALUMINUM COPINGS AND COUNTERFLASHINGS.



2 ROOF EDGE DETAIL
3" = 1'-0"

- NOTES: 1. REMOVE EXISTING ROOFING, FLASHINGS, INSULATION, AND SHEET METAL FROM ROOF.
2. RESCURE ANY LOOSE EXISTING WOOD BLOCKING WITH COATED WOOD SCREWS @ 2'-0" O.C.



3 SCUPPER DETAIL
3" = 1'-0"

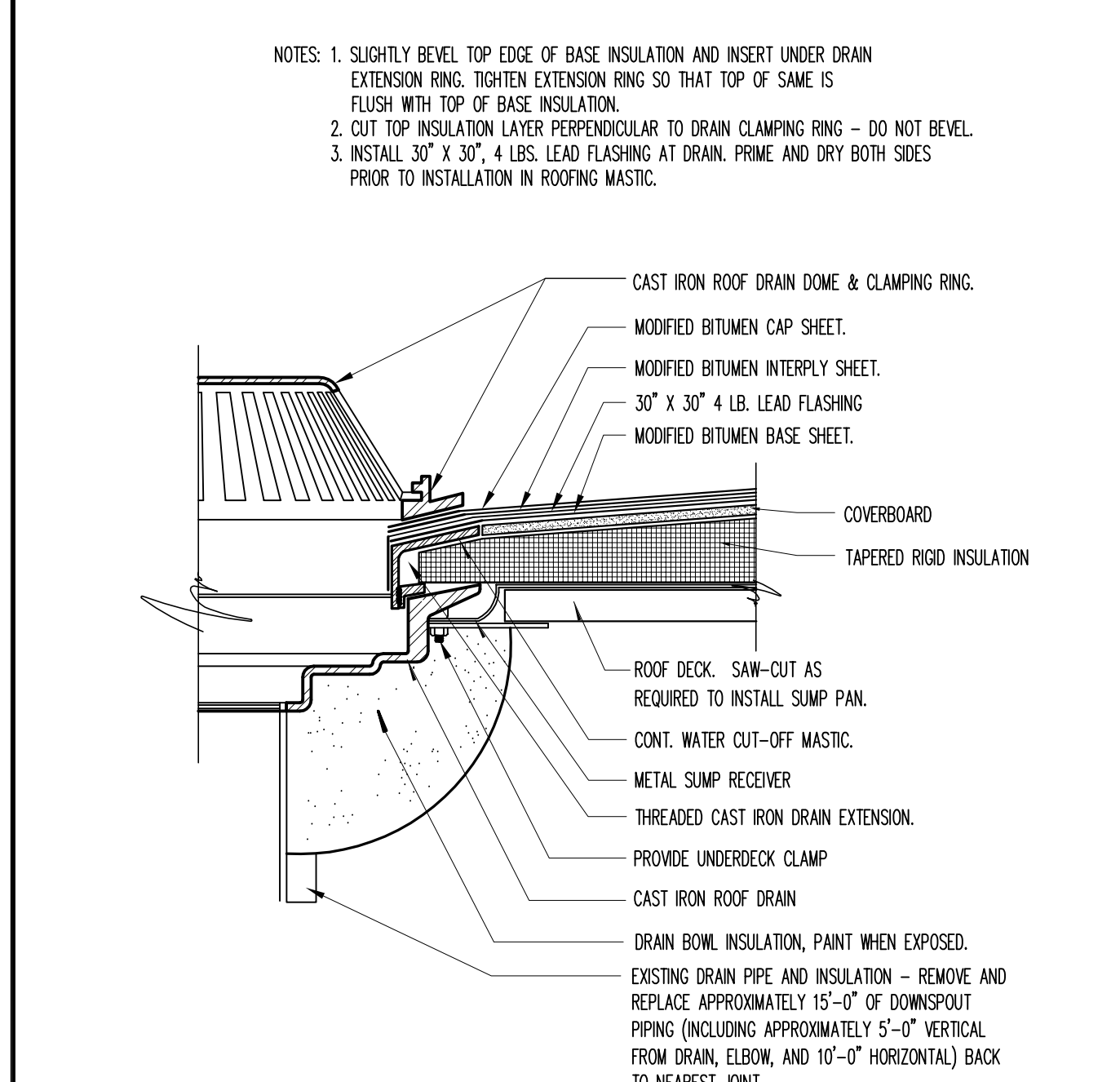
LEGEND	
	AREA OF 1/4"/FT. TAPERED ROOFING SYSTEM.
	EXISTING ROOF DRAIN TO BE REPLACED W/ NEW - SEE DETAIL 1/A2.44.
	VENT PIPE ROOF PENETRATION - SEE DETAIL 2/A2.44.
	HVAC UNIT & ROOF CURB - SEE DETAIL 3/A2.44.
	METAL COPING - SEE DETAILS 11 & 12/A2.44.
	EXISTING SCUPPER OPENING - SEE DETAIL 3/A1.44 - PROVIDE NEW OPENING WHERE INDICATED ON PLAN
	3'-0" X 4'-0" WALKWAY PAD

GENERAL NOTES:

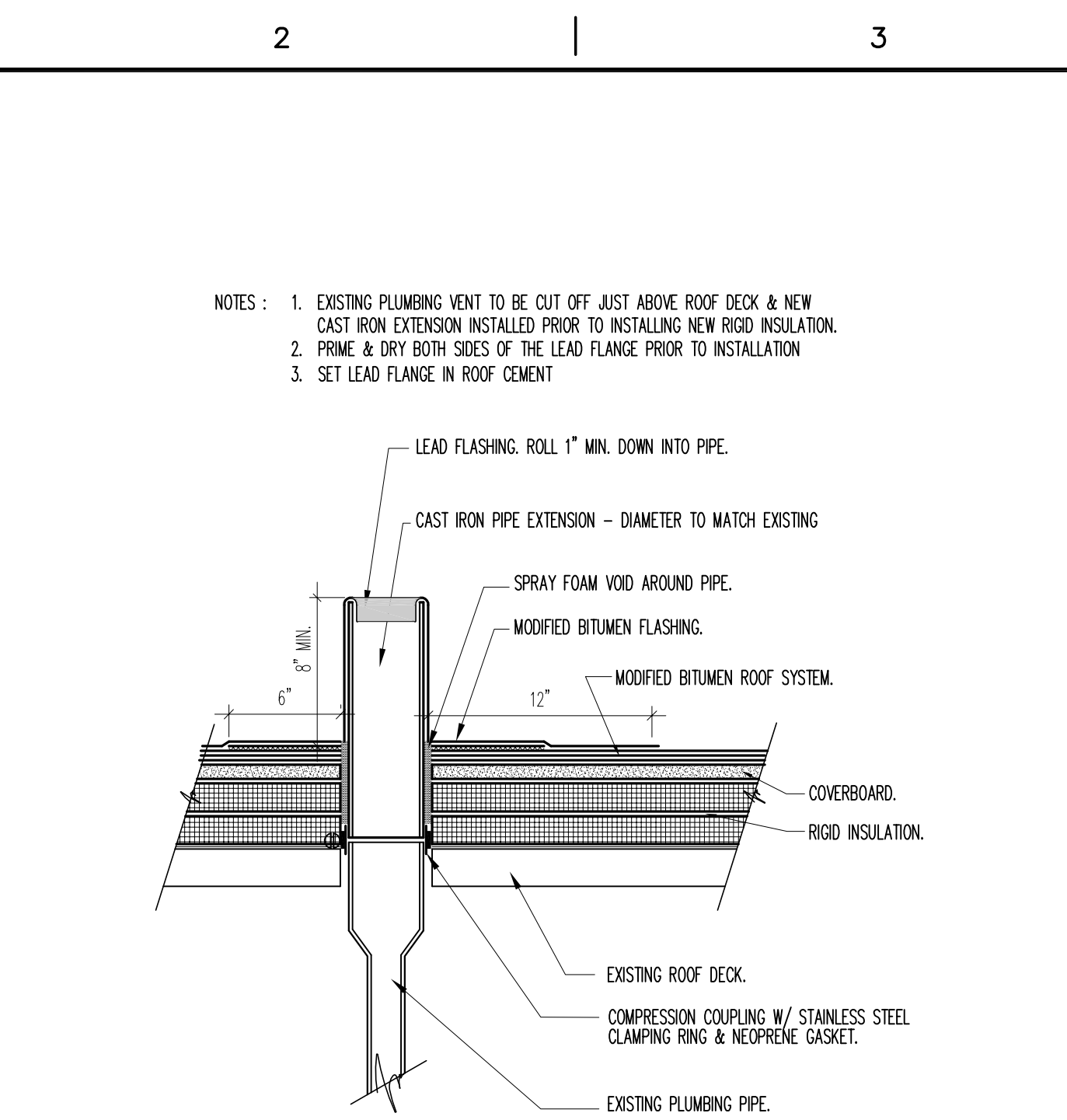
- EXISTING ROOFING MATERIALS TO BE REMOVED CAREFULLY SO AS NOT TO DAMAGE THE EXISTING ROOF DECK. CONTRACTOR SHALL PROVIDE FOR PATCHING AND REPAIR OF 2% OF THE EXISTING CONCRETE ROOF DECK.
- ALL EXISTING ROOF PENETRATIONS INCLUDING ROOF CURBS AND RAILS, VENT PIPES, GUY WIRE SUPPORTS, ETC., ARE TO BE EXTENDED TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE OR AS RECOMMENDED BY ROOFING MANUFACTURER, WHICHEVER IS GREATER.
- ALL INSULATION JOINTS, BOTH HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
- ALL WOOD BLOCKING TO HAVE STAGGERED, MITERED, AND SCREW FASTENED JOINTS, REFER TO DETAIL 9/A2.44.
- PRIOR TO THE START OF WORK, THE EXISTING DRAIN DOWNSPOUTS AND VENTS ARE TO BE VIDEO SURVEYED TO DOCUMENT THEIR CURRENT CONDITION. CONTRACTOR SHALL SUBMIT A WRITTEN REPORT SUMMARIZING FINDINGS. ALL DRAIN DOWNSPOUTS AND VENT PIPES SHALL BE RODDED CLEAN UPON COMPLETION OF NEW ROOFING INSTALLATION.
- CONTRACTOR SHALL PROVIDE HOIST FOR REMOVAL OF ALL DEMOLISHED MATERIAL FROM THE ROOF AND FOR DELIVERY OF NEW MATERIAL AND EQUIPMENT TO THE ROOF. THE OWNER'S ELEVATORS SHALL BE USED FOR TRANSPORT OF PEOPLE ONLY, AND SHALL NOT BE USED TO TRANSPORT MATERIAL OR EQUIPMENT OF ANY KIND.
- SITE NOTES:
 - REPAIR CONCRETE AREAS DAMAGED DURING CONSTRUCTION.
 - REPAIR BITUMINOUS AREAS DAMAGED DURING CONSTRUCTION.
 - REPAIR ALL LANDSCAPING DAMAGED DURING CONSTRUCTION.
- FLASHING NOTES: (THE FOLLOWING NOTES APPLY TO METAL FLASHING CONDITIONS)
 - ALL METAL FLASHING FLANGES ARE TO BE SET IN SEALANT
 - FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS
 - ISOMETRIC DRAWINGS ARE DIAGRAMMATIC
 - FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES
 - ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES
 - NON-EXPOSED NAIL FASTENERS TO BE 1-1/2" RING SHANK ROOFING NAILS
 - NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE 1-1/4" X 3/16" STAINLESS STEEL SCREWS
 - SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" TAPCONS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS
 - EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 3/16" STAINLESS STEEL SCREWS WITH NEOPRENE WASHERS
 - FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION
- CONTRACTOR SHALL PROTECT WINDOWS ADJACENT TO WORK AREA ONE FLOOR BELOW AND TWO FLOORS ABOVE. WINDOWS SHALL BE COVERED WITH PLASTIC FROM EXTERIOR AND SEALED.
- THE OWNER SHALL ABATE ANY DISCOVERED ASBESTOS CONTAINING MATERIAL. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY SUCH DISCOVERED MATERIAL.
- PRIOR TO START OF WORK, THE EXISTING LIGHTNING PROTECTION SYSTEM SHALL BE PHOTOGRAPHICALLY SURVEYED TO DOCUMENT THE EXISTING CONDITION. TEMPORARILY REMOVE THE LIGHTNING PROTECTION SYSTEM AND REINSTALL UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL REPLACE APPROXIMATELY (5) EXISTING DAMAGED RODS AND ASSOCIATED MOUNTING CLIPS, AS WELL AS APPROXIMATELY (20) LINEAL FEET OF DAMAGED OR CORRODED CABLING. ALL EXISTING EXPOSED STEEL EQUIPMENT SUPPORTS, FRAMING, CAGES, ETC. (BOTH HORIZONTAL AND VERTICAL SURFACES) SHALL BE SCRAPED, PRIMED AND PAINTED.
- WHERE EXISTING OVERFLOW SCUPPER OPENING IS BELOW TOP OF NEW ROOF, REMOVE EXISTING SCUPPER, IN-FILL MASONRY AND PROVIDE NEW SCUPPER PER DETAIL 2/A1.44
- CONTRACTOR SHALL COORDINATE SHUT-DOWN OF ALL HVAC UNITS, ANTENNA, SATELLITE DISHES AND ANY OTHER ROOFTOP EQUIPMENT WITH THE VA.

CONSULTANTS: Interstate Roof Systems Consultants, Inc. 1275 Davis Road, Suite 132 Elgin, IL 60123 Tel (847) 695-1460 Fax (847) 695-1462 www.irscinc.com		Design Project Number 537-09-164	ARCHITECT/ENGINEERS: LEGATARCHITECTS sustainability performance design 651 West Washington Blvd. - Suite One Chicago, Illinois 60661-2122 Tel 312.258.9595 Fax 312.258.1555 www.legat.com		Drawing Title ROOF PLAN, NOTES AND ROOF DETAILS Approved Project Director VAPACHS PLANNING AND ENGINEERING	Project Title ROOFING REPLACEMENT PHASE 44 Location CHICAGO L. Date 12/12/12 Checked TK Drawn JC	Construction Project Number 537-12-135 Building Number BUILDING NO. 1 Drawing Number A1.44 Dec. 15 of 19	Office of Construction and Facilities Management Department of Veterans Affairs
--	--	--	--	--	--	---	---	--

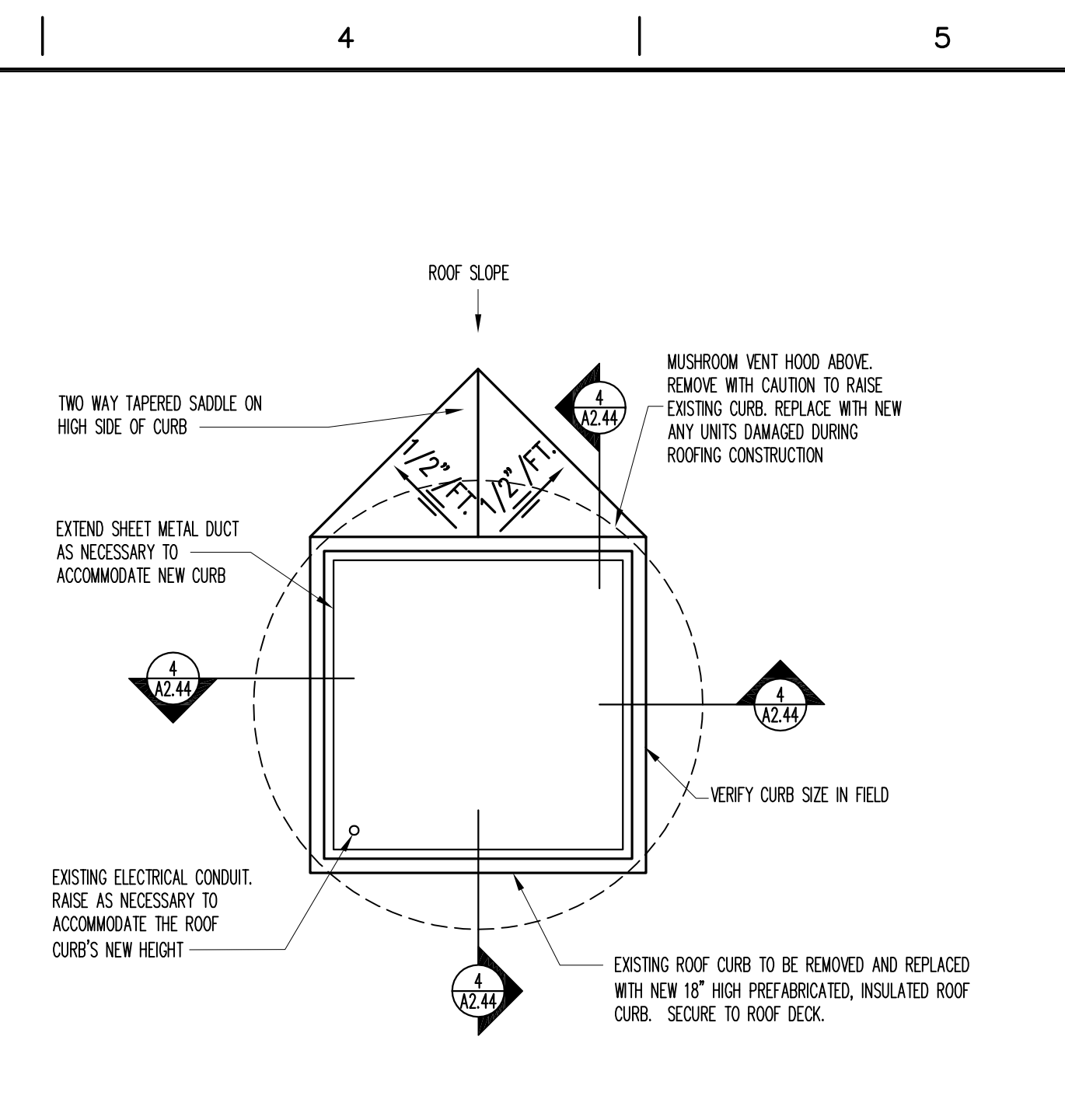
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot
one eighth inch = one foot
one eighth inch = one foot



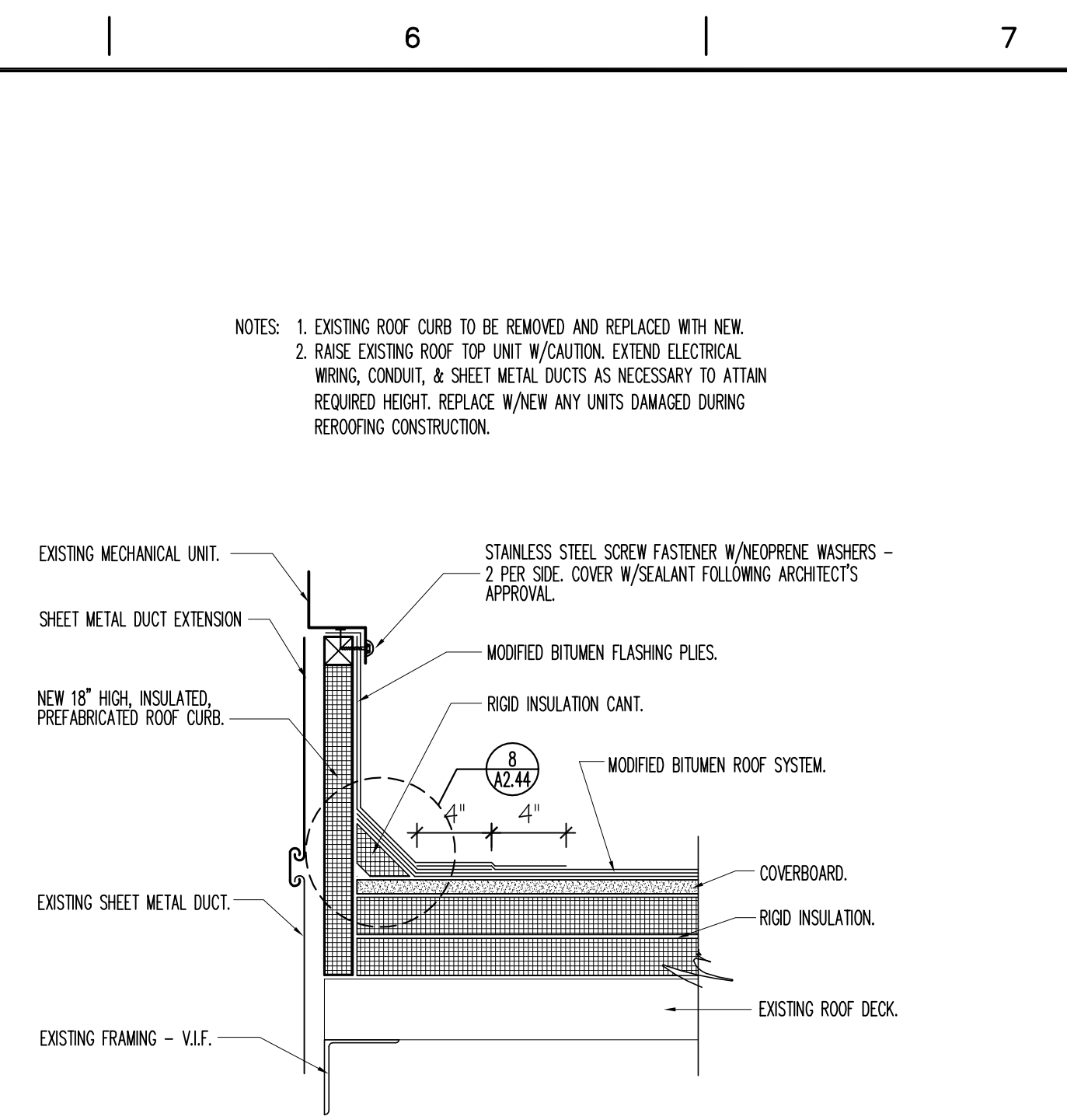
1 REPLACEMENT ROOF DRAIN DETAIL
SCALE: 1-1/2" = 1'-0"



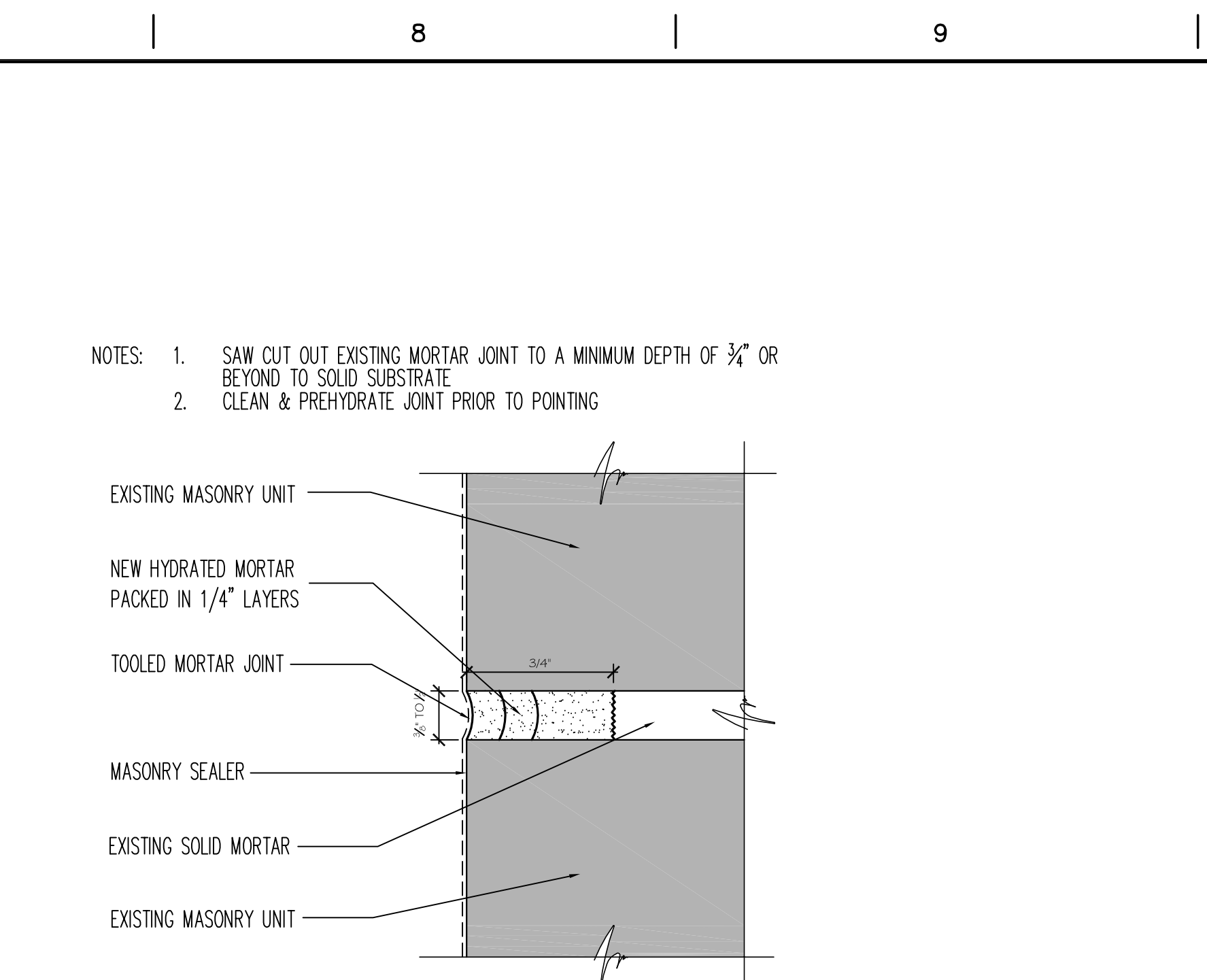
2 VENT PIPE EXTENSION DETAIL
SCALE: 1-1/2" = 1'-0"



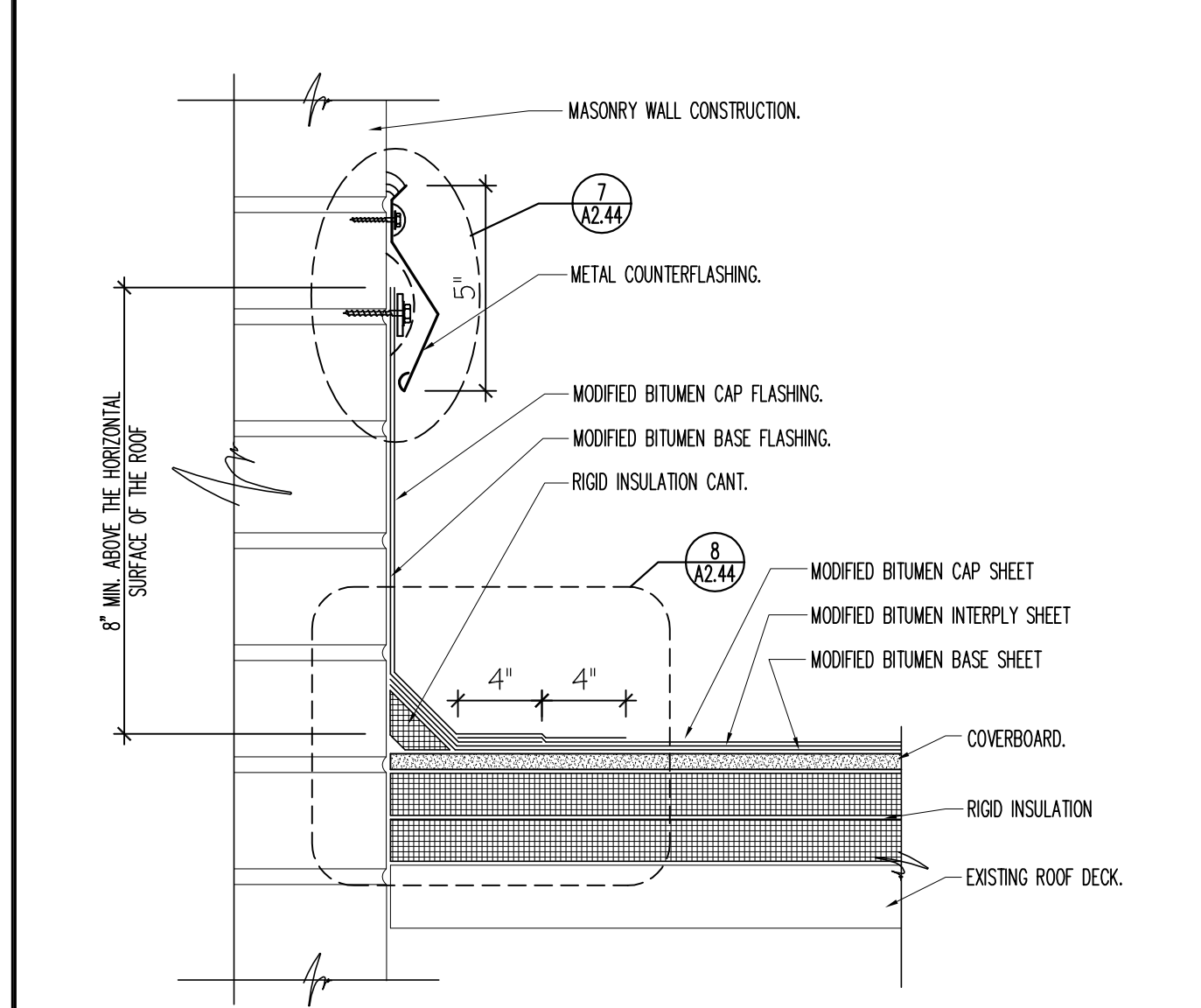
3 ROOF CURB PLAN DETAIL
SCALE: 1-1/2" = 1'-0"



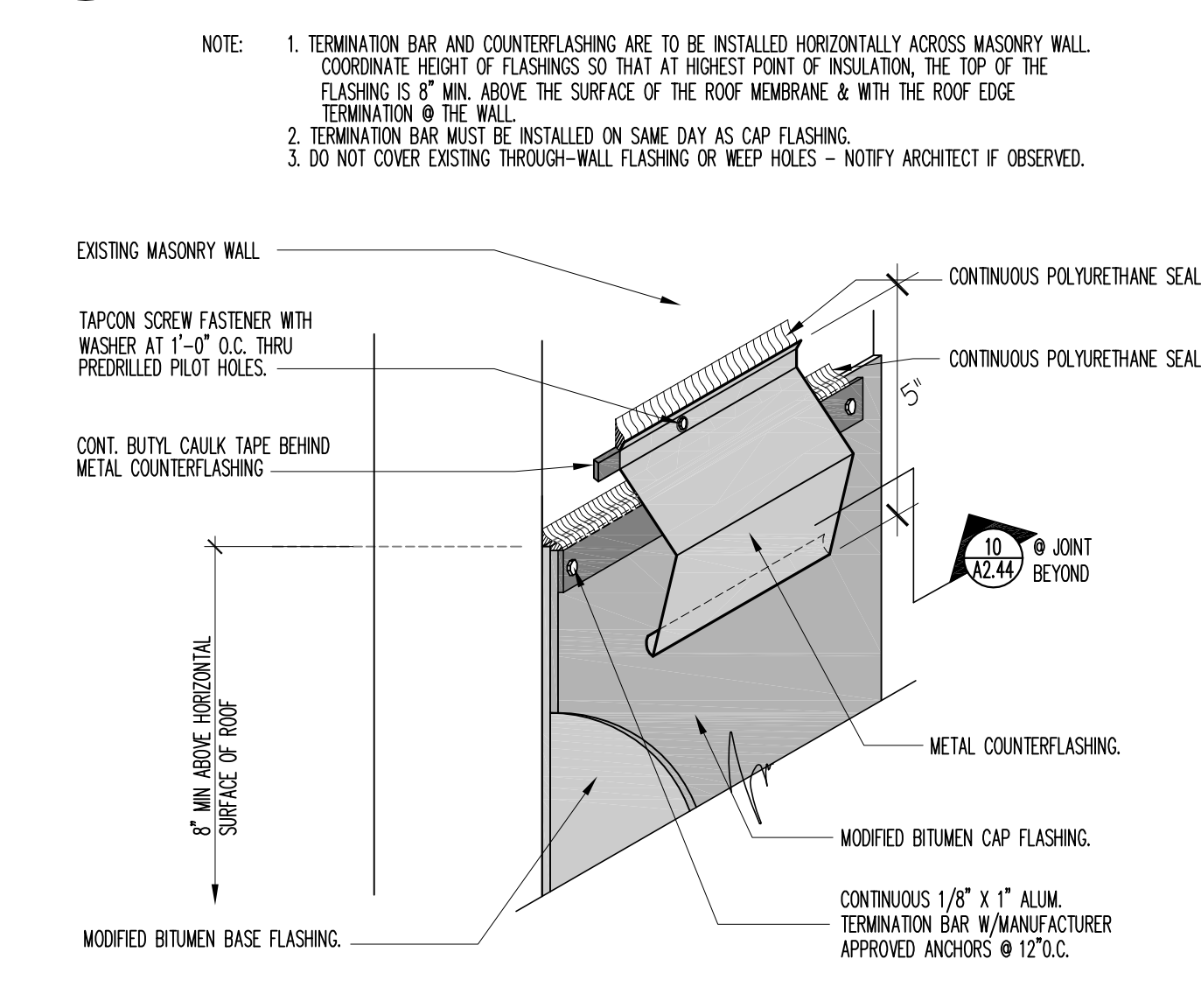
4 ROOF CURB REPLACEMENT DETAIL
SCALE: 1-1/2" = 1'-0"



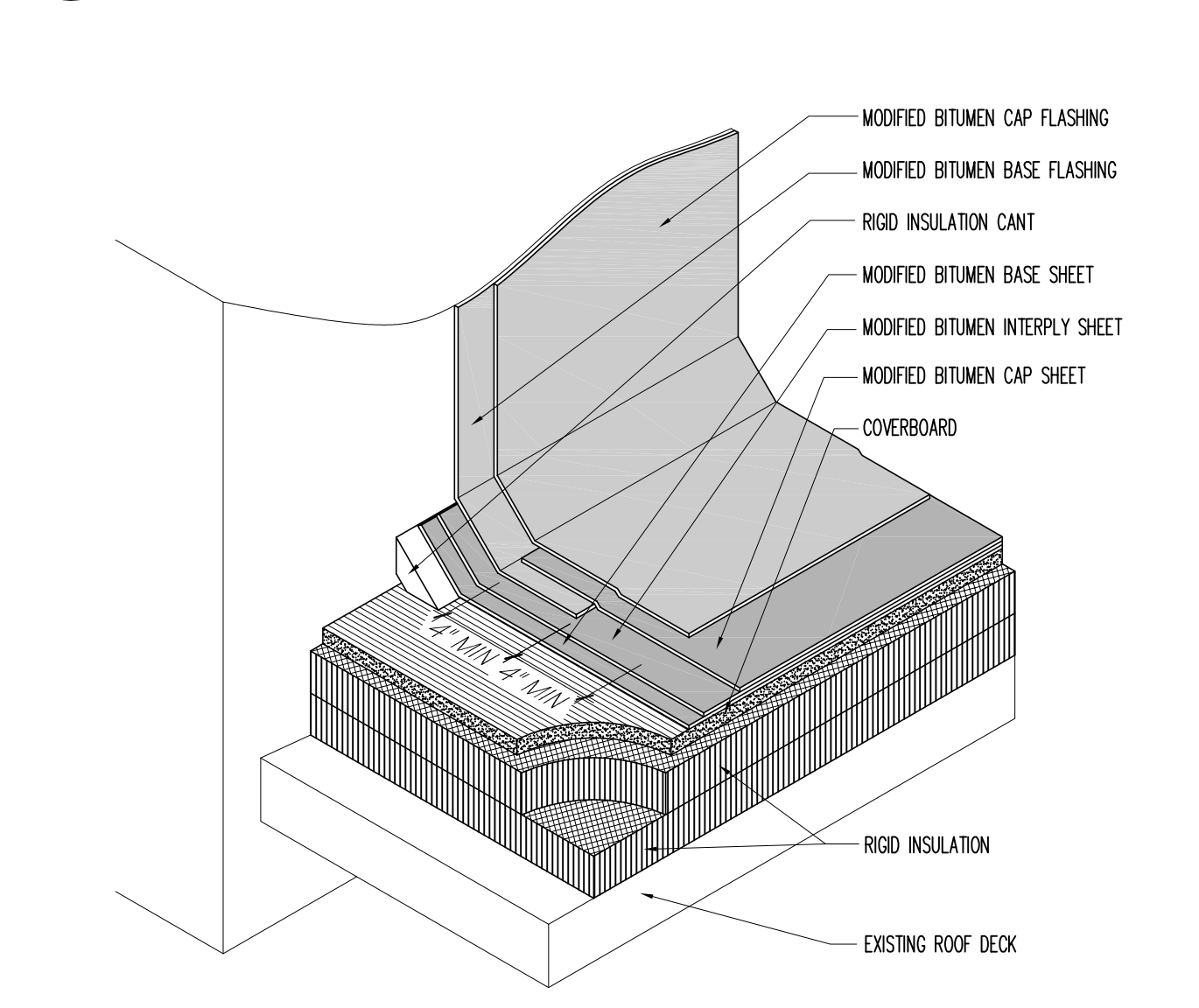
5 TYPICAL MASONRY MORTAR JOINT - REPOINTING DETAIL
SCALE: FULL SCALE



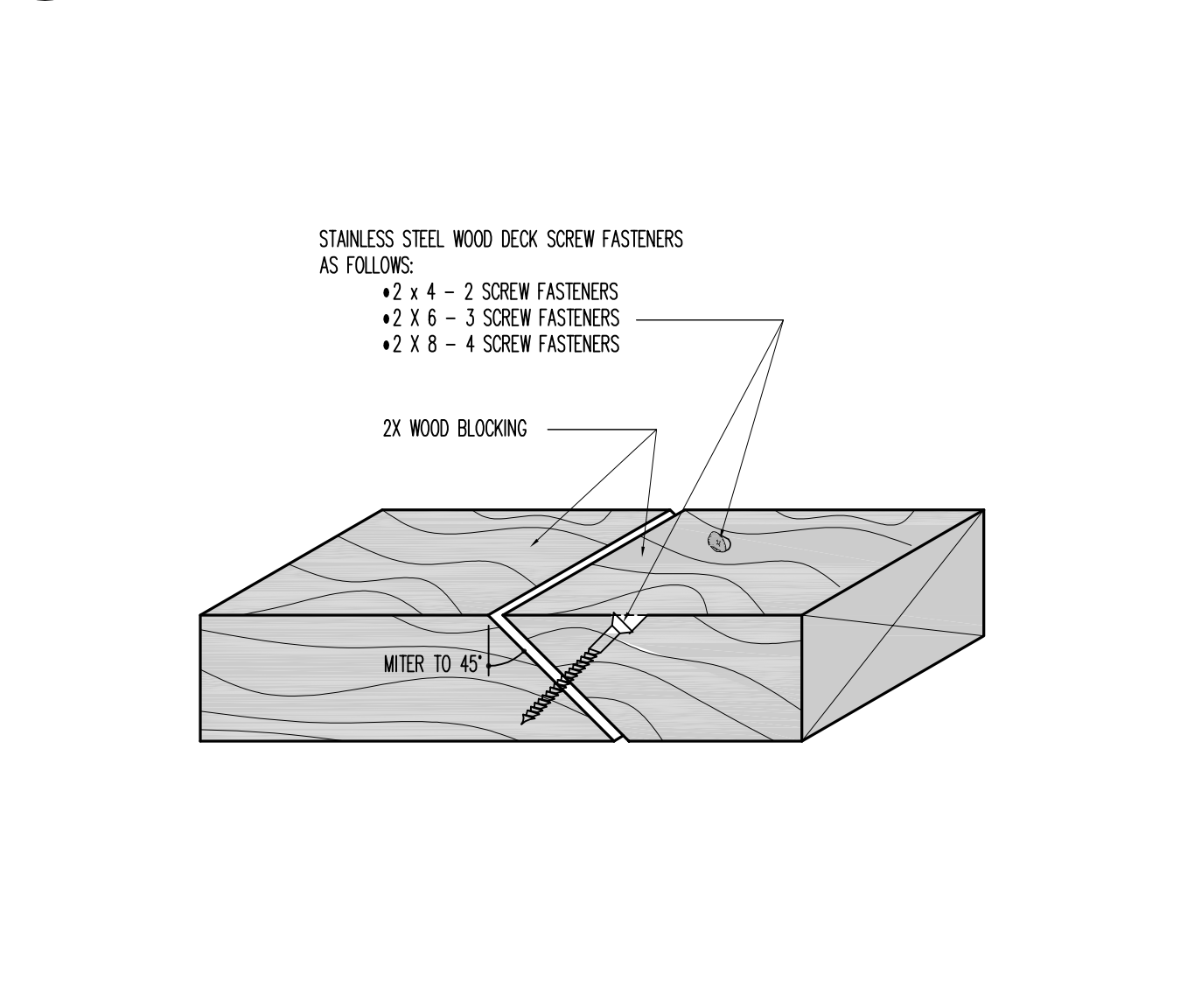
6 ROOF TERMINATION DETAIL
SCALE: 1-1/2" = 1'-0"



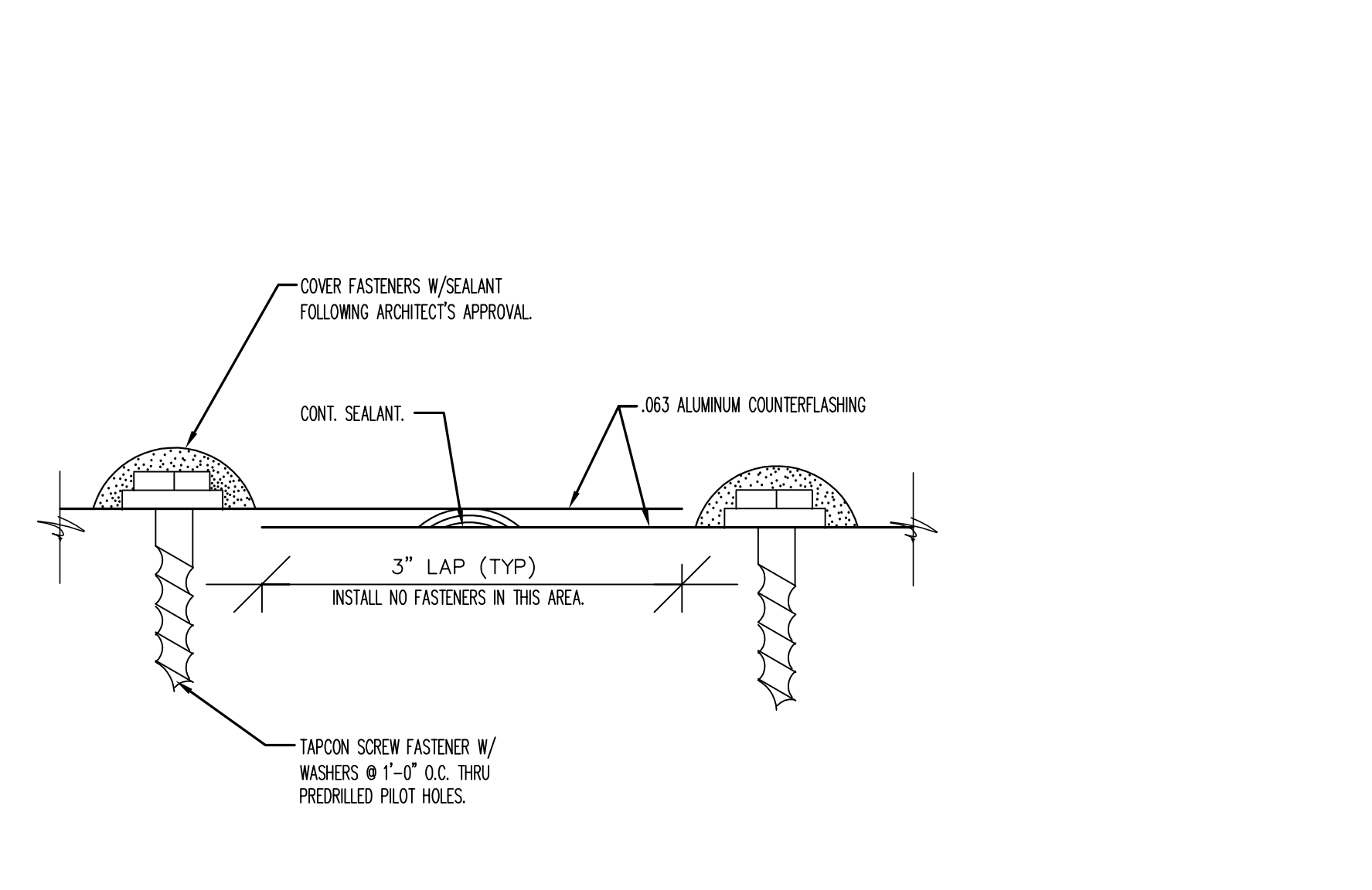
7 ROOF FLASHING TERMINATION AND COUNTERFLASHING DETAIL
SCALE: 3" = 1'-0"



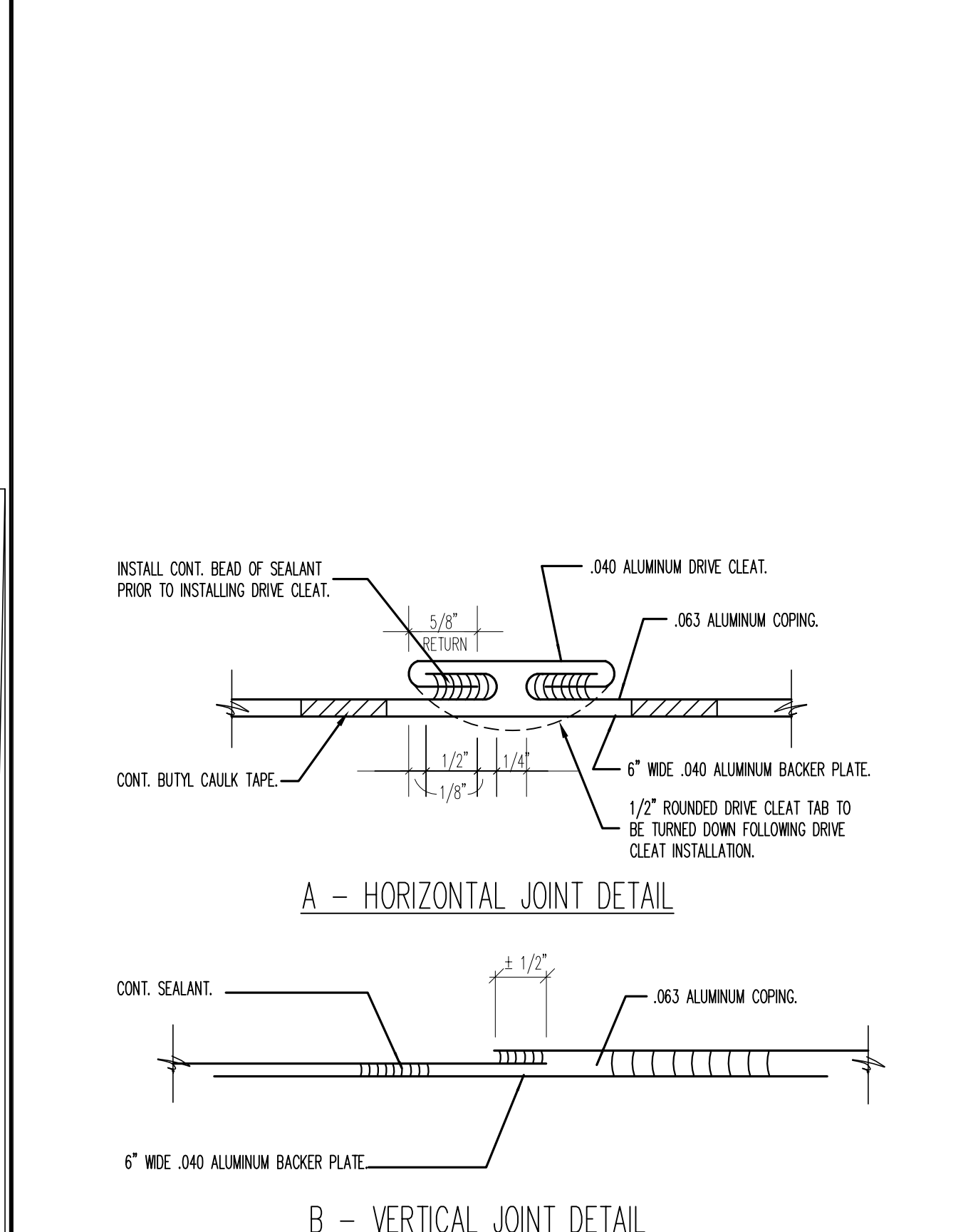
8 BASE FLASHING DETAIL
SCALE: 1-1/2" = 1'-0"



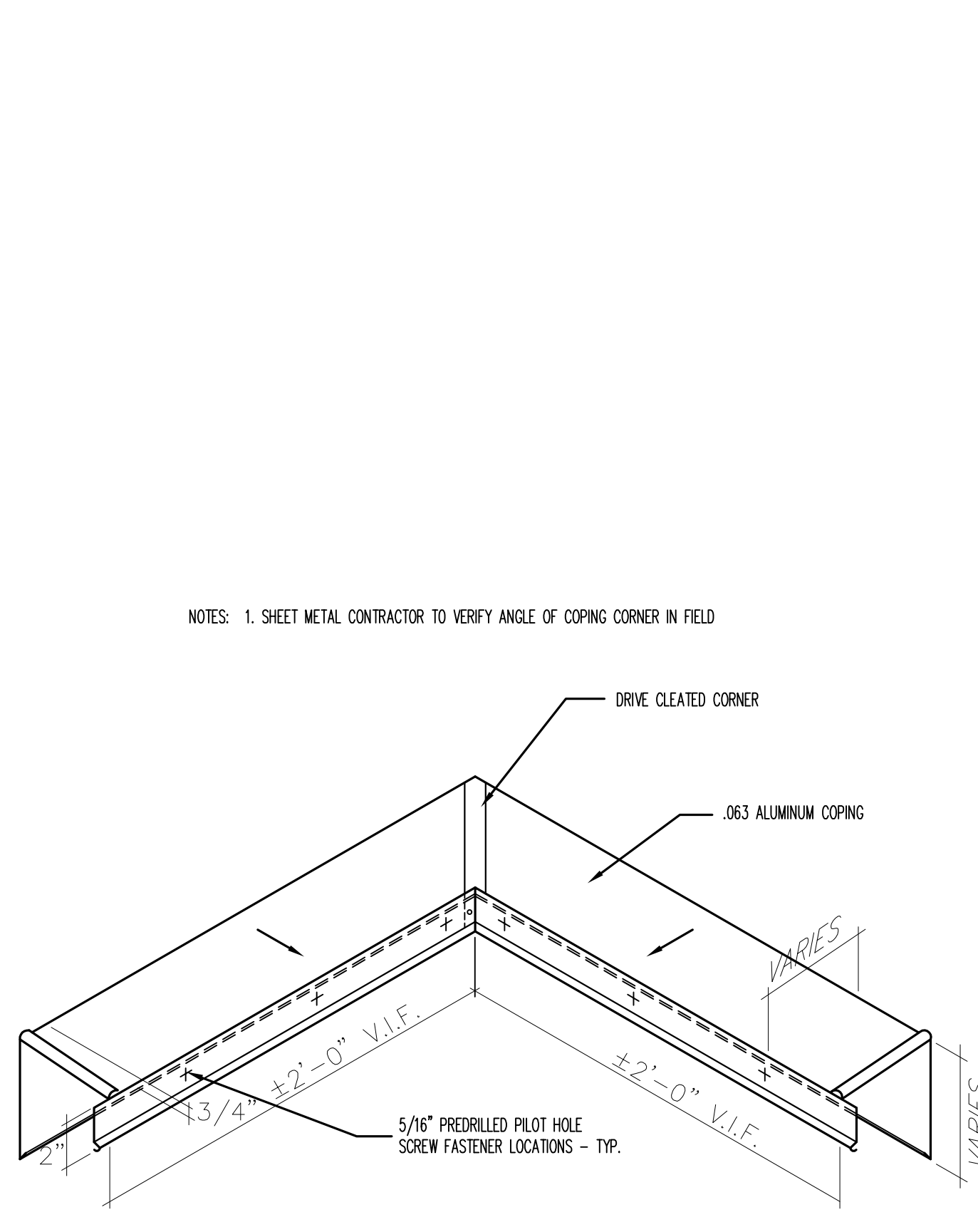
9 WOOD BLOCKING JOINT DETAIL
SCALE: 6" = 1'-0"



10 COUNTERFLASHING LAP JOINT DETAIL
SCALE: 6" = 1'-0"



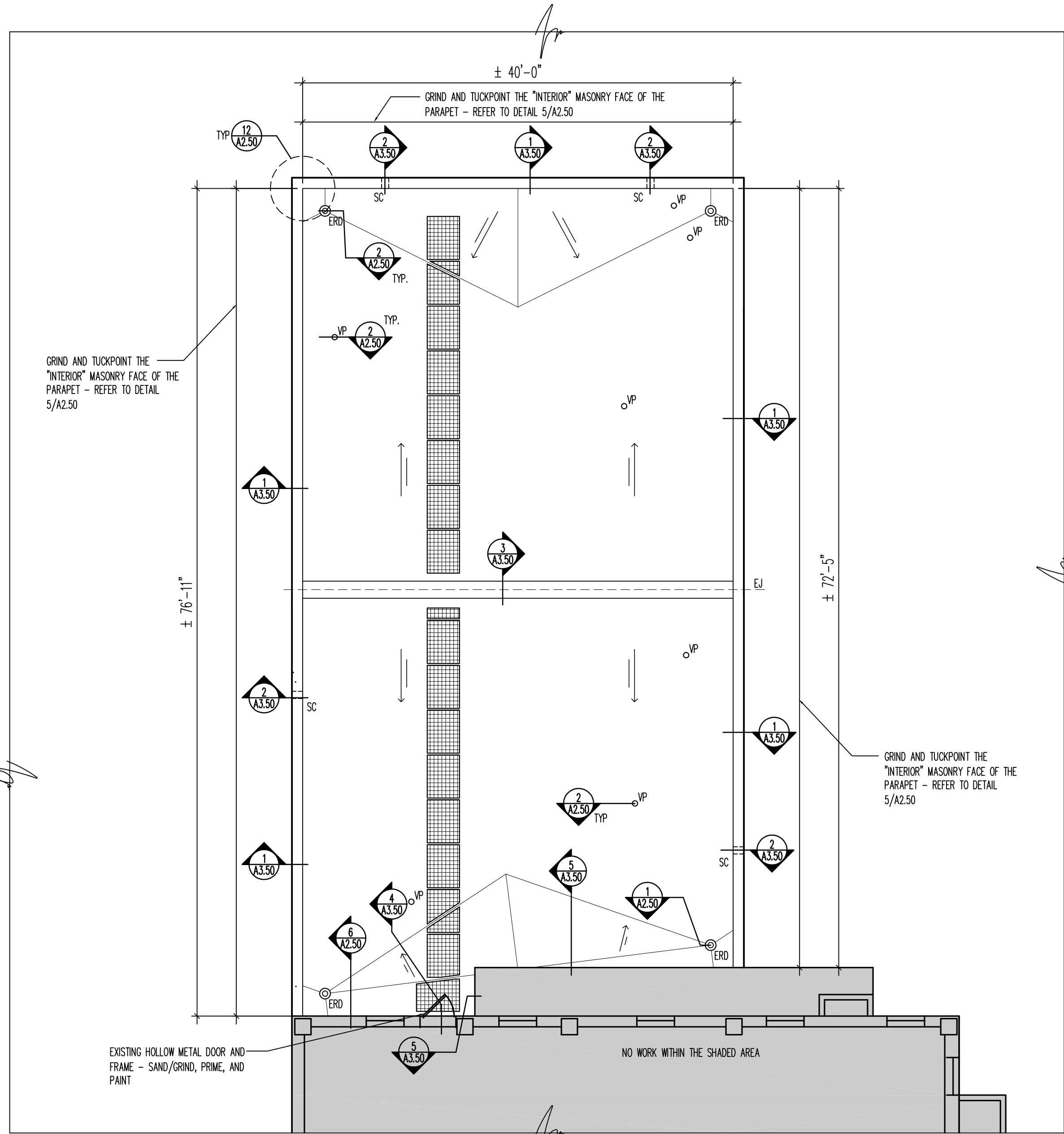
11 SHEET METAL JOINT DETAILS
SCALE: NTS



12 OUTSIDE COPING CORNER DETAIL
SCALE: 1-1/2" = 1'-0"

		<div>CONSULTANTS:</div> <div><div><div><div>IRSC</div><div>Interstate Roof Systems Consultants, Inc.</div><div>1275 Davis Road, Suite 132 Elgin, IL 60123 Tel (847) 695-1460 Fax (847) 695-1462 www.irscinc.com</div></div></div></div>	<div>Design Project Number 537-09-164</div> <div></div>	<div>ARCHITECT/ENGINEERS:</div> <div><div><div>LEGAT</div><div>ARCHITECTS</div><div>sustainability performance design</div></div><div>651 West Washington Blvd. - Suite One Chicago, Illinois 60661-2122 Tel 312.258.9595 Fax 312.258.1555 www.legat.com</div></div>	<div>Drawing Title</div> <div>ROOF DETAILS</div>	<div>Project Title</div> <div>ROOFING REPLACEMENT PHASE 44</div>	<div>Construction Project Number</div> <div>537-12-135</div>	<div>Office of Construction and Facilities Management</div> <div><div><div></div><div>Department of Veterans Affairs</div></div></div>	
					<div>Building Number</div> <div>BUILDING NO. 1</div>	<div>Drawing Number</div> <div>A2.44</div> <div>Aug. 16 of 19</div>			
					<div>Location</div> <div>CHICAGO IL</div>				
<div>BIDDING DOCUMENTS</div> <div>12/12/12</div>					<div>Date</div> <div>12/12/12</div>		<div>Checked</div> <div>TK</div>		<div>Drawn</div> <div>KK</div>
<div>95% DESIGN DOCUMENTS</div> <div>06/21/12</div>									
<div>Revisions</div> <div>Date</div>									

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



1 PARTIAL ROOF PLAN – PHASE 50
1/8" = 1'-0"

ROOF CONSTRUCTION NOTES:

REFER TO THE PROJECT SPECIFICATIONS FOR ACCEPTABLE MATERIALS AND INSTALLATION REQUIREMENTS

PHASE 50 (+/- 3,223 SF):

1. REMOVE EXISTING ROOFING, FLASHINGS, INSULATION, AND SHEET METAL DOWN TO DECK.
2. INSTALL 2 LAYERS OF MODIFIED BITUMEN TEMPORARY ROOF / VAPOR RETARDER.
3. REPLACE EXISTING ROOF DRAIN ASSEMBLIES – REFER TO DETAIL 1/A2.50. REPLACE APPROXIMATELY 15'-0" OF DOWNSPOUT PIPING (INCLUDING APPROXIMATELY 5'-0" VERTICAL FROM DRAIN, ELBOW, AND 10'-0" HORIZONTAL) BACK TO NEAREST JOINT. REMOVE EXISTING PLASTER, GYPSUM BOARD OR SUSPENDED ACOUSTICAL TILE CEILING SYSTEM AND SOFFITS AS REQUIRED TO REPLACE DRAINS AND PIPING. PATCH AND PAINT PLASTER AND GYPSUM BOARD CEILINGS AND SOFFITS TO MATCH EXISTING ADJACENT SURFACES. REINSTALL SUSPENDED ACOUSTICAL TILE CEILINGS.
4. RAISE HVAC CURBS AND PLUMBING VENTS. PROVIDE NEW CURBS WHERE INDICATED.
5. PERIMETER ROOF EDGE WOOD BLOCKING.
6. RIGID AND TAPERED RIGID INSULATION AND SADDLES MEETING MINIMUM OVERALL AVERAGE R-VALUE OF 25 WITH A MINIMUM R-VALUE AT ANY LOCATION OF 10 – FIRST LAYER TO BE 2" RIGID INSULATION (SET IN INSULATION ADHESIVE) – FOLLOWING LAYERS TO BE TAPERED RIGID INSULATION (SET IN INSULATION ADHESIVE).
7. 1/2" DENS DECK PRIME – SET IN INSULATION ADHESIVE.
8. MODIFIED BITUMEN BASE SHEET (MINIMUM THICKNESS 80 MIL) – SET IN COLD ADHESIVE.
9. MODIFIED BITUMEN INTERPLY SHEET (MINIMUM THICKNESS 85 MIL) – SET IN COLD ADHESIVE.
10. GRANULAR SURFACED MODIFIED BITUMEN CAP SHEET (MINIMUM THICKNESS 130 MIL) – HEAT WELDED.
11. .063 ALUMINUM COPINGS AND COUNTERFLASHINGS.

LEGEND

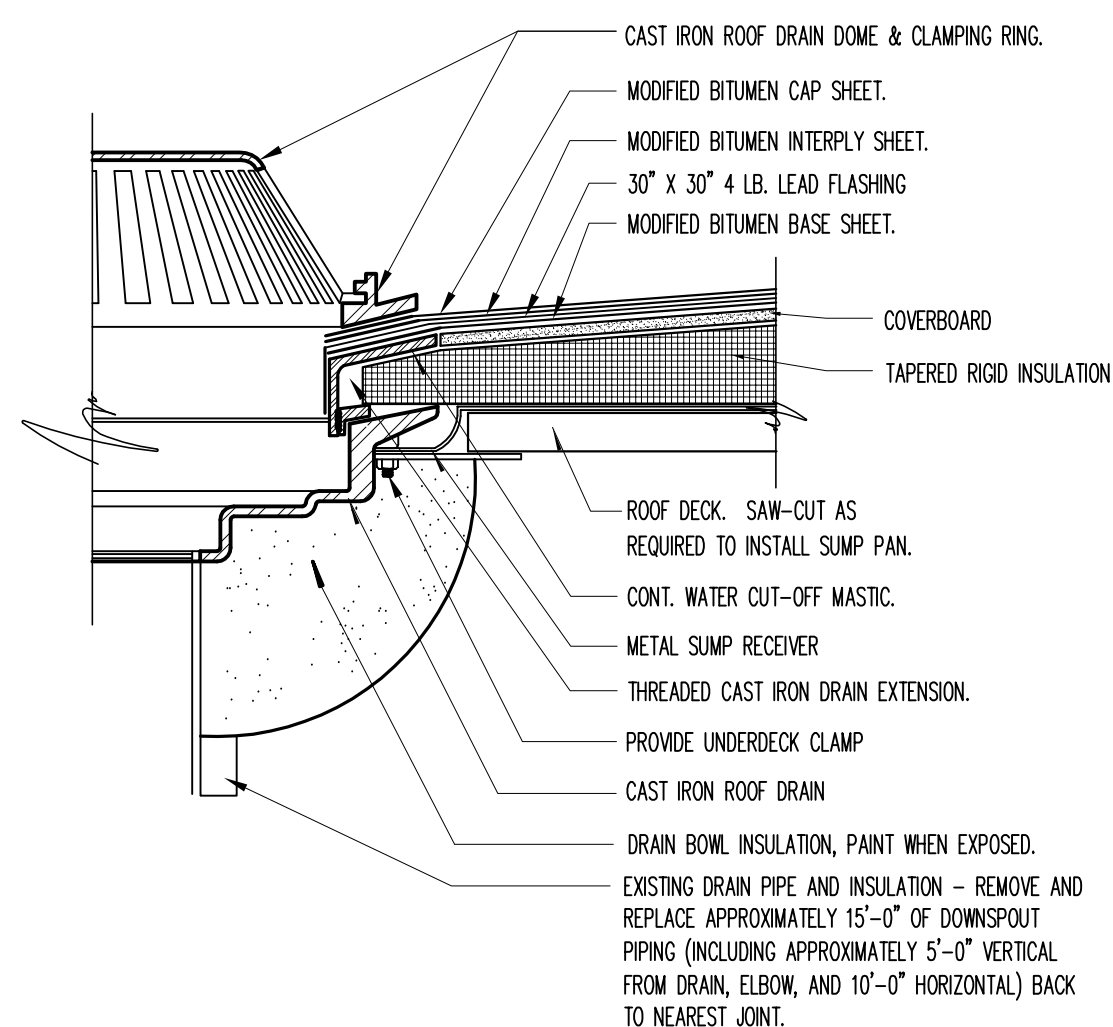
- AREA OF 1/4"/FT. TAPERED ROOFING SYSTEM.
- EXISTING ROOF DRAIN TO BE REPLACED W/ NEW – SEE DETAIL 1/A2.50.
- VENT PIPE ROOF PENETRATION – SEE DETAIL 2/A2.50.
- HVAC UNIT & ROOF CURB – SEE DETAIL 3/A2.50.
- METAL COPING – SEE DETAILS 11 & 12/A2.50.
- EXISTING SCUPPER OPENING – SEE DETAIL 3/A1.50 – PROVIDE NEW OPENING WHERE INDICATED ON PLAN
- 3'-0" X 4'-0" WALKWAY PAD
- EXPANSION JOINT

GENERAL NOTES:

1. EXISTING ROOFING MATERIALS TO BE REMOVED CAREFULLY SO AS NOT TO DAMAGE THE EXISTING ROOF DECK. CONTRACTOR SHALL PROVIDE FOR PATCHING AND REPAIR OF 2% OF THE EXISTING CONCRETE ROOF DECK.
2. ALL EXISTING ROOF PENETRATIONS INCLUDING ROOF CURBS AND RAILS, VENT PIPES, GUY WIRE SUPPORTS, ETC., ARE TO BE EXTENDED TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE OR AS RECOMMENDED BY ROOFING MANUFACTURER, WHICHEVER IS GREATER.
3. ALL INSULATION JOINTS, BOTH HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
4. ALL WOOD BLOCKING TO HAVE STAGGERED, MITERED, AND SCREW FASTENED JOINTS. REFER TO DETAIL 9/A2.50.
5. PRIOR TO THE START OF WORK, THE EXISTING DRAIN DOWNSPOUTS AND VENTS ARE TO BE VIDEO SURVEYED TO DOCUMENT THEIR CURRENT CONDITION. CONTRACTOR SHALL SUBMIT A WRITTEN REPORT SUMMARIZING FINDINGS. ALL DRAIN DOWNSPOUTS AND VENT PIPES SHALL BE RODDED CLEAN UPON COMPLETION OF NEW ROOFING INSTALLATION.
6. CONTRACTOR SHALL PROVIDE HOIST FOR REMOVAL OF ALL DEMOLISHED MATERIAL FROM THE ROOF AND FOR DELIVERY OF NEW MATERIAL AND EQUIPMENT TO THE ROOF. THE OWNER'S ELEVATORS SHALL BE USED FOR TRANSPORT OF PEOPLE ONLY, AND SHALL NOT BE USED TO TRANSPORT MATERIAL OR EQUIPMENT OF ANY KIND.
7. SITE NOTES:
 - 7.1. REPAIR CONCRETE AREAS DAMAGED DURING CONSTRUCTION.
 - 7.2. REPAIR BITUMINOUS AREAS DAMAGED DURING CONSTRUCTION.
 - 7.3. REPAIR ALL LANDSCAPING DAMAGED DURING CONSTRUCTION.
8. FLASHING NOTES: (THE FOLLOWING NOTES APPLY TO METAL FLASHING CONDITIONS)
 - 8.1. ALL METAL FLASHING FLANGES ARE TO BE SET IN SEALANT.
 - 8.2. FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS
 - 8.3. ISOMETRIC DRAWINGS ARE DIAGRAMMATIC
 - 8.4. FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES
 - 8.5. ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES
 - 8.6. NON-EXPOSED NAIL FASTENERS TO BE 1-1/2" RING SHANK ROOFING NAILS
 - 8.7. NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE 1-1/4" X 3/16" STAINLESS STEEL SCREWS
 - 8.8. SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" TAPCONS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS
 - 8.9. EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 3/16" STAINLESS STEEL SCREWS WITH NEOPRENE WASHERS
 - 8.10. FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION
9. CONTRACTOR SHALL PROTECT WINDOWS ADJACENT TO WORK AREA ONE FLOOR BELOW AND TWO FLOORS ABOVE. WINDOWS SHALL BE COVERED WITH PLASTIC FROM EXTERIOR AND SEALED.
10. THE OWNER SHALL ABATE ANY DISCOVERED ASBESTOS CONTAINING MATERIAL. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY SUCH DISCOVERED MATERIAL.
11. PRIOR TO START OF WORK, THE EXISTING LIGHTNING PROTECTION SYSTEM SHALL BE PHOTOGRAPHICALLY SURVEYED TO DOCUMENT THE EXISTING CONDITION. TEMPORARILY REMOVE THE LIGHTING PROTECTION SYSTEM AND REINSTALL UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL REPLACE APPROXIMATELY (5) EXISTING DAMAGED RODS AND ASSOCIATED MOUNTING CLIPS, AS WELL AS APPROXIMATELY (20) LINEAL FEET OF DAMAGED OR CORRODED CABLING.
12. ALL EXISTING EXPOSED STEEL EQUIPMENT SUPPORTS, FRAMING, CAGES, ETC. (BOTH HORIZONTAL AND VERTICAL SURFACES) SHALL BE SCRAPPED, PRIMED AND PAINTED.
13. WHERE EXISTING OVERFLOW SCUPPER OPENING IS BELOW TOP OF NEW ROOF, REMOVE EXISTING SCUPPER, INFILL MASONRY, AND PROVIDE NEW SCUPPER PER 3/A1.50.
14. CONTRACTOR SHALL COORDINATE SHUT-DOWN OF ALL HVAC UNITS, ANTENNA, SATELLITE DISHES AND ANY OTHER ROOFTOP EQUIPMENT WITH THE VA.

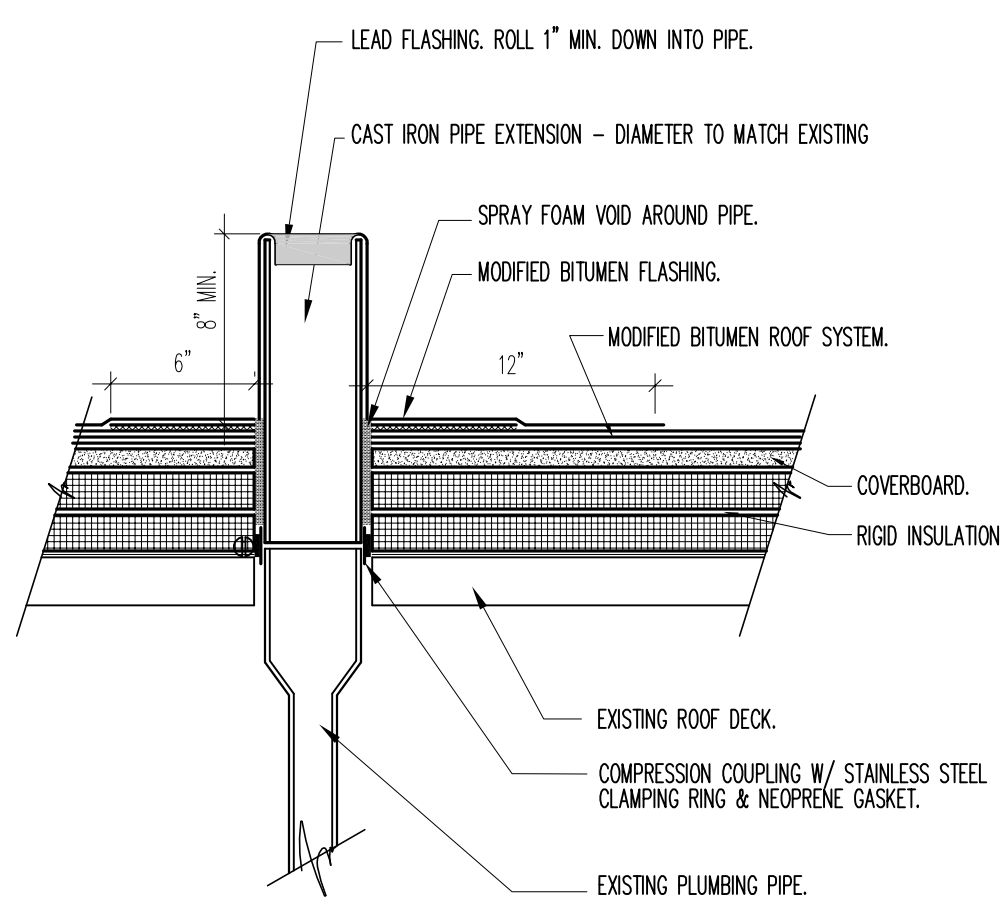
CONSULTANTS:		Design Project Number 537-09-164	ARCHITECT/ENGINEERS:		Drawing Title ROOF PLAN AND NOTES	Project Title ROOFING REPLACEMENT PHASE 50	Construction Project Number 537-12-135	Office of Construction and Facilities Management Department of Veterans Affairs	
IRSC Interstate Roof Systems Consultants, Inc. 1275 Davis Road, Suite 132 Elgin, IL 60123 Tel (847) 695-1460 Fax (847) 695-1462 www.irscinc.com			LEGATARCHITECTS sustainability performance design 651 West Washington Blvd. – Suite One Chicago, Illinois 60661-2122 Tel 312.258.9595 Fax 312.258.1555 www.legat.com		Approved Project Director VAPAHCS PLANNING AND ENGINEERING	Location CHICAGO L.	Building Number BUILDING NO. 1		
BIDDING DOCUMENTS 12/12/12 95% DESIGN DOCUMENTS 06/21/12 Revisions Date					Date 12/12/12	Checked TK	Drawn JC		

- NOTES: 1. SLIGHTLY BEVEL TOP EDGE OF BASE INSULATION AND INSERT UNDER DRAIN EXTENSION RING. TIGHTEN EXTENSION RING SO THAT TOP OF SAME IS FLUSH WITH TOP OF BASE INSULATION.
2. CUT TOP INSULATION LAYER PERPENDICULAR TO DRAIN CLAMPING RING - DO NOT BEVEL.
3. INSTALL 30" X 30", 4 LBS. LEAD FLASHING AT DRAIN. PRIME AND DRY BOTH SIDES PRIOR TO INSTALLATION IN ROOFING MASTIC.

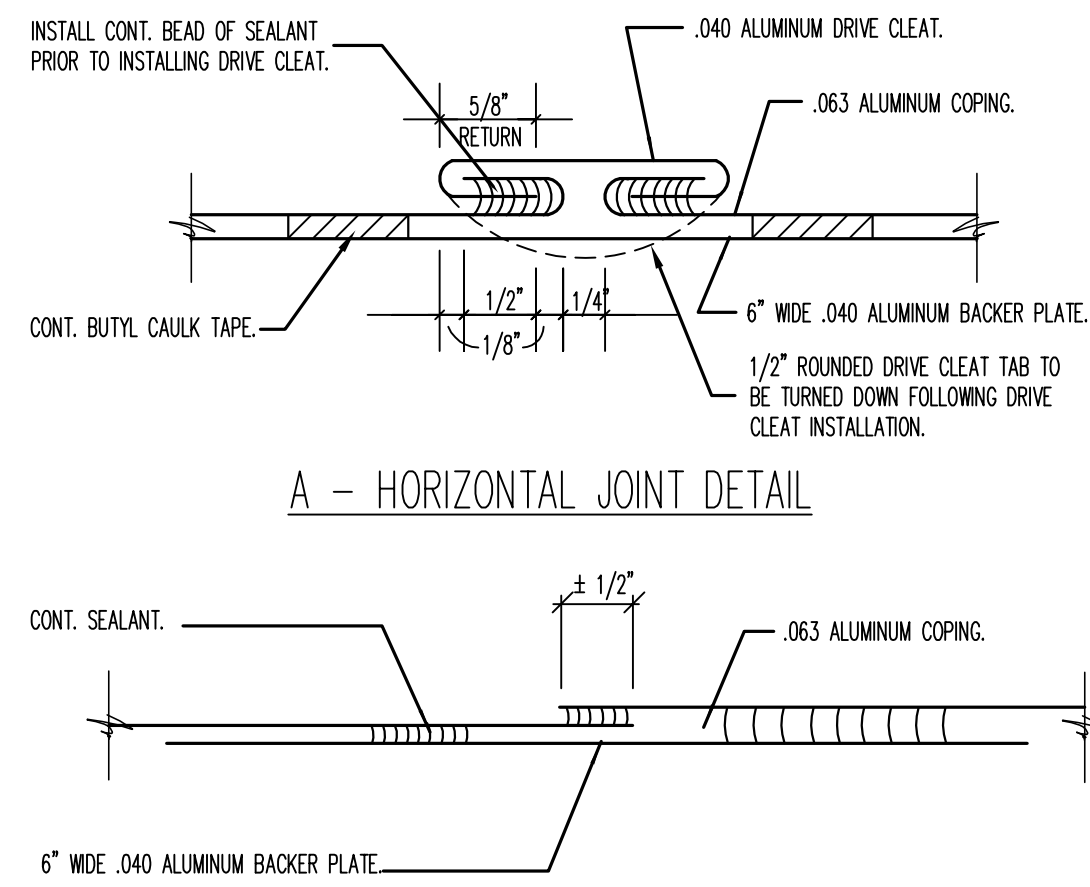


1 REPLACEMENT ROOF DRAIN DETAIL
SCALE: 1-1/2" = 1'-0"

- NOTES: 1. EXISTING PLUMBING VENT TO BE CUT OFF JUST ABOVE ROOF DECK & NEW CAST IRON PIPE EXTENSION - DIAMETER TO MATCH EXISTING.
2. PRIME & DRY BOTH SIDES OF THE LEAD FLANGE PRIOR TO INSTALLATION.
3. SET LEAD FLANGE IN ROOF CEMENT.

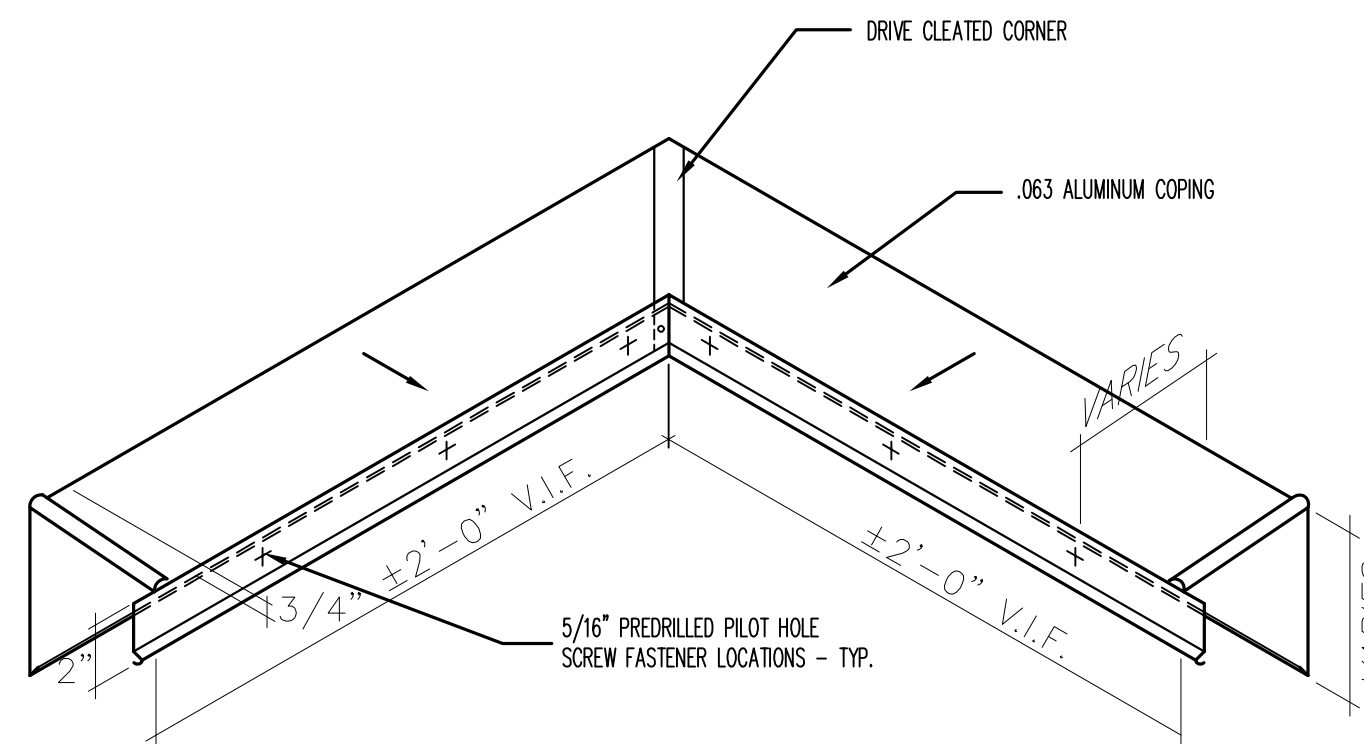


2 VENT PIPE EXTENSION DETAIL
SCALE: 1-1/2" = 1'-0"



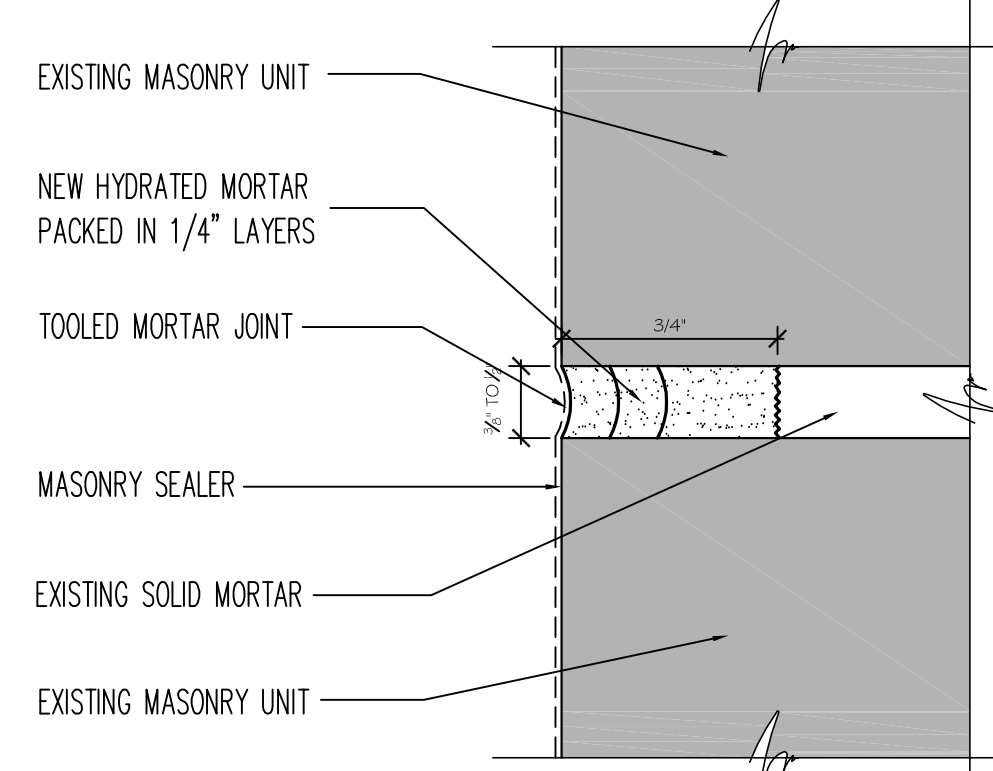
3 SHEET METAL JOINT DETAILS
SCALE: NTS

- NOTES: 1. SHEET METAL CONTRACTOR TO VERIFY ANGLE OF COPING CORNER IN FIELD.

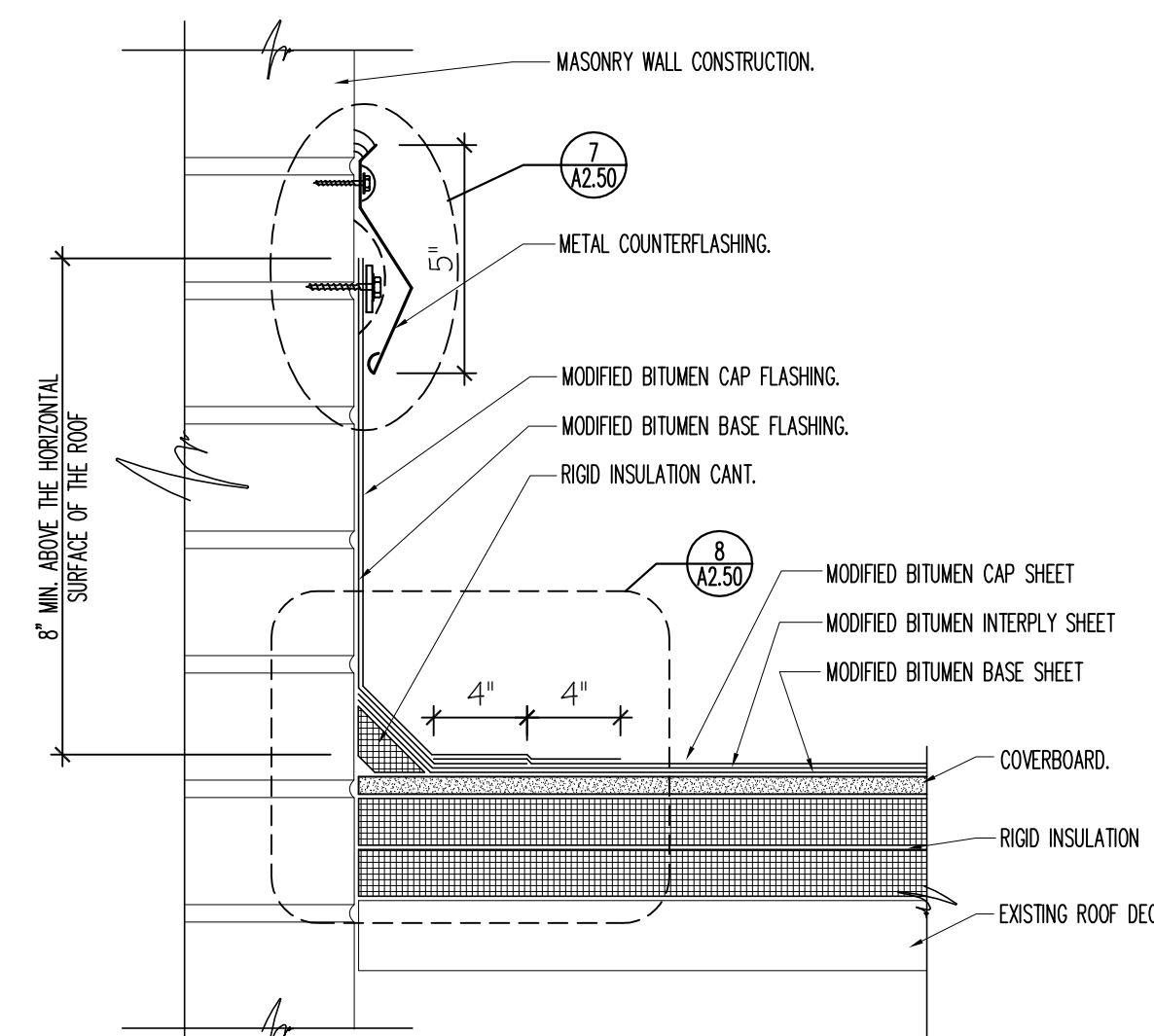


4 OUTSIDE COPING CORNER DETAIL
SCALE: 1-1/2" = 1'-0"

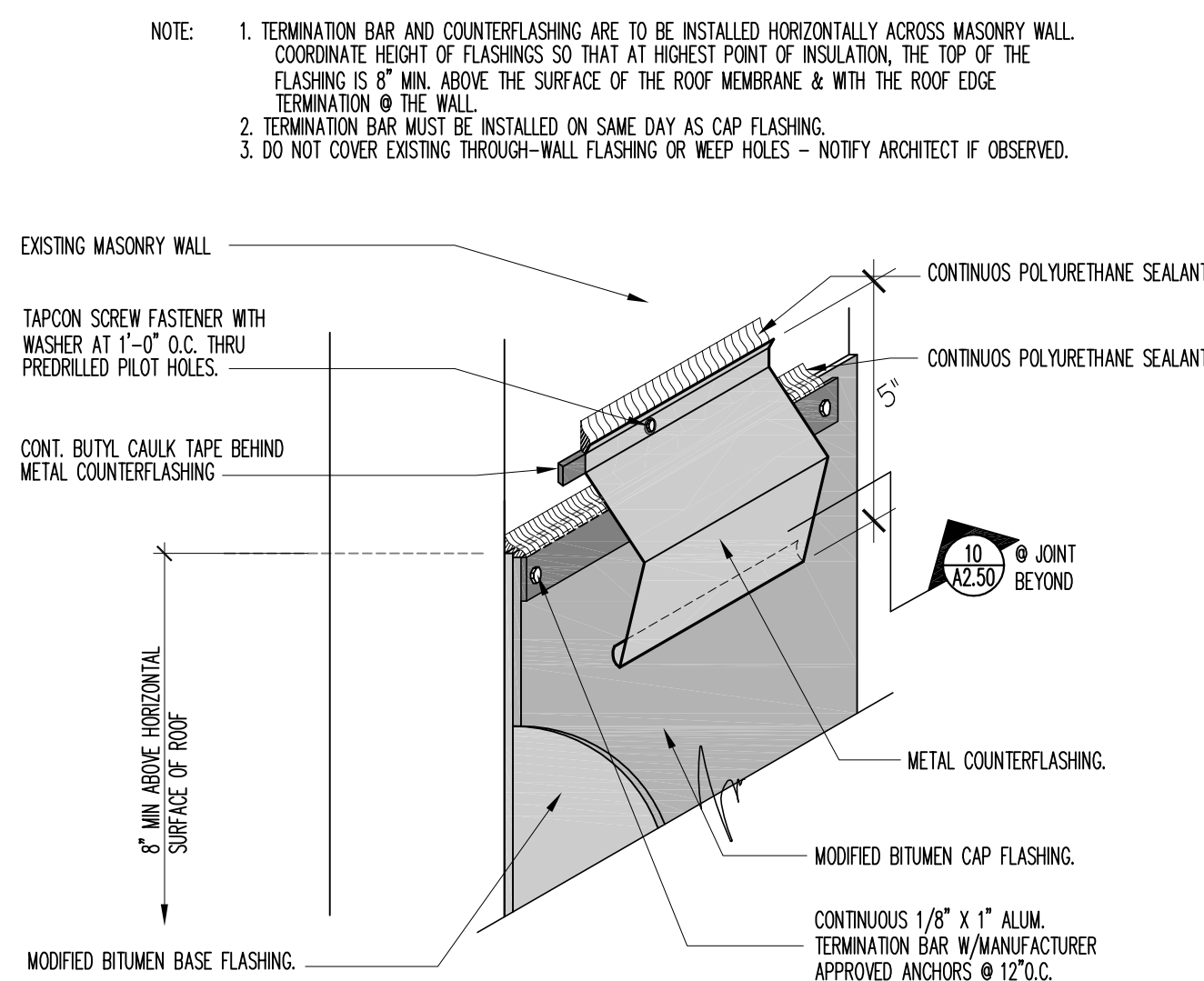
- NOTES: 1. SAW CUT OUT EXISTING MORTAR JOINT TO A MINIMUM DEPTH OF 3/4\"/>



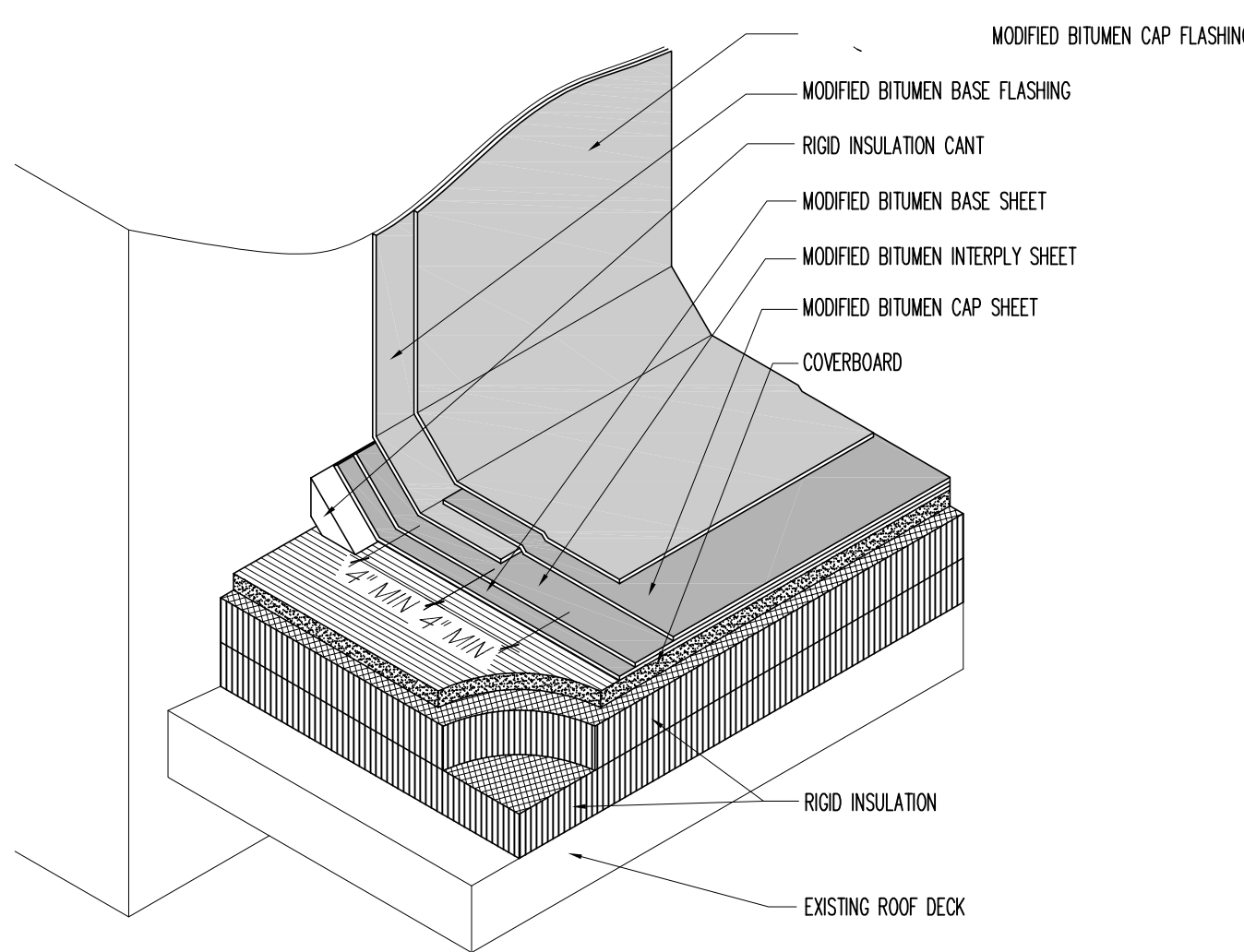
5 TYPICAL MASONRY MORTAR JOINT - REPOINTING DETAIL
SCALE: FULL SCALE



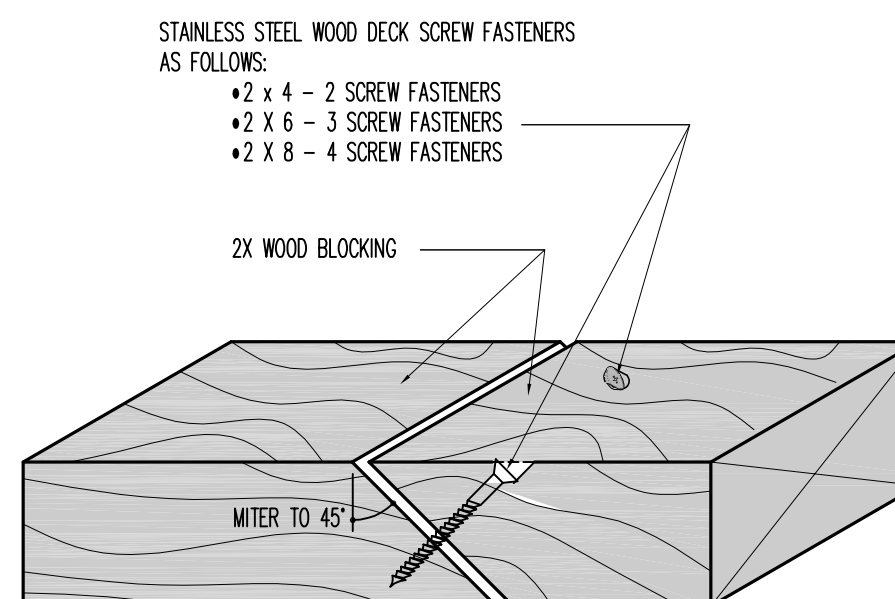
6 ROOF TERMINATION DETAIL
SCALE: 1-1/2" = 1'-0"



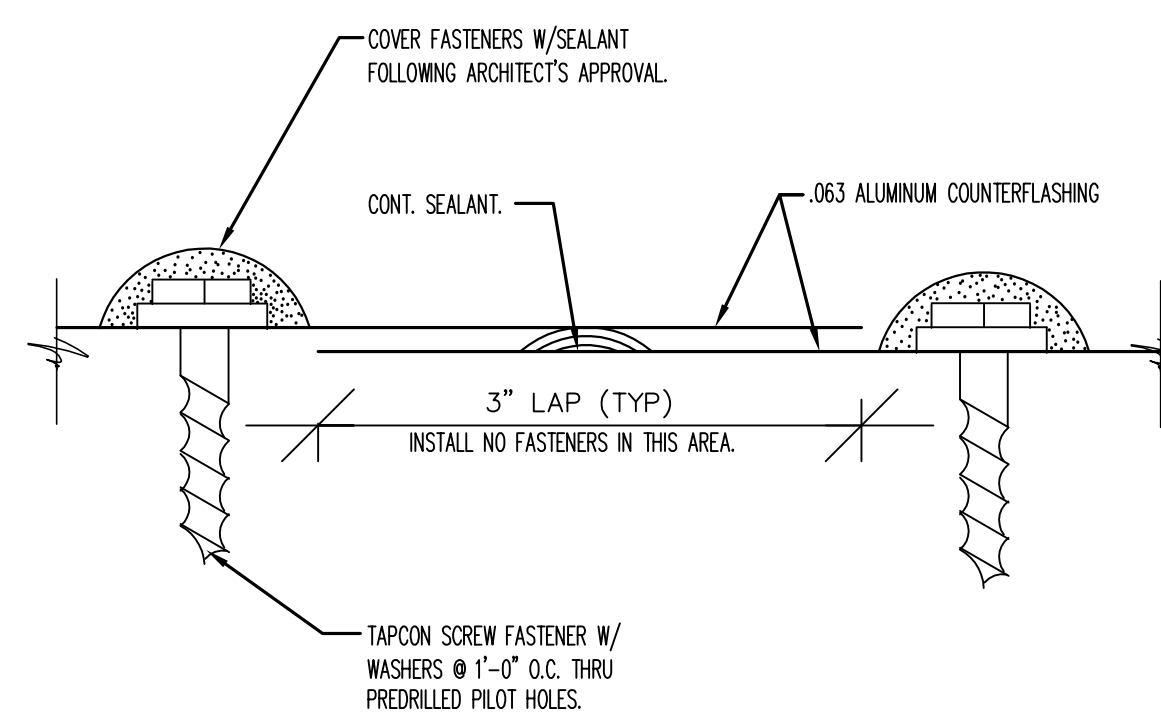
7 ROOF FLASHING TERMINATION AND COUNTERFLASHING DETAIL
SCALE: 3\"/>



8 BASE FLASHING DETAIL
SCALE: 1-1/2" = 1'-0"

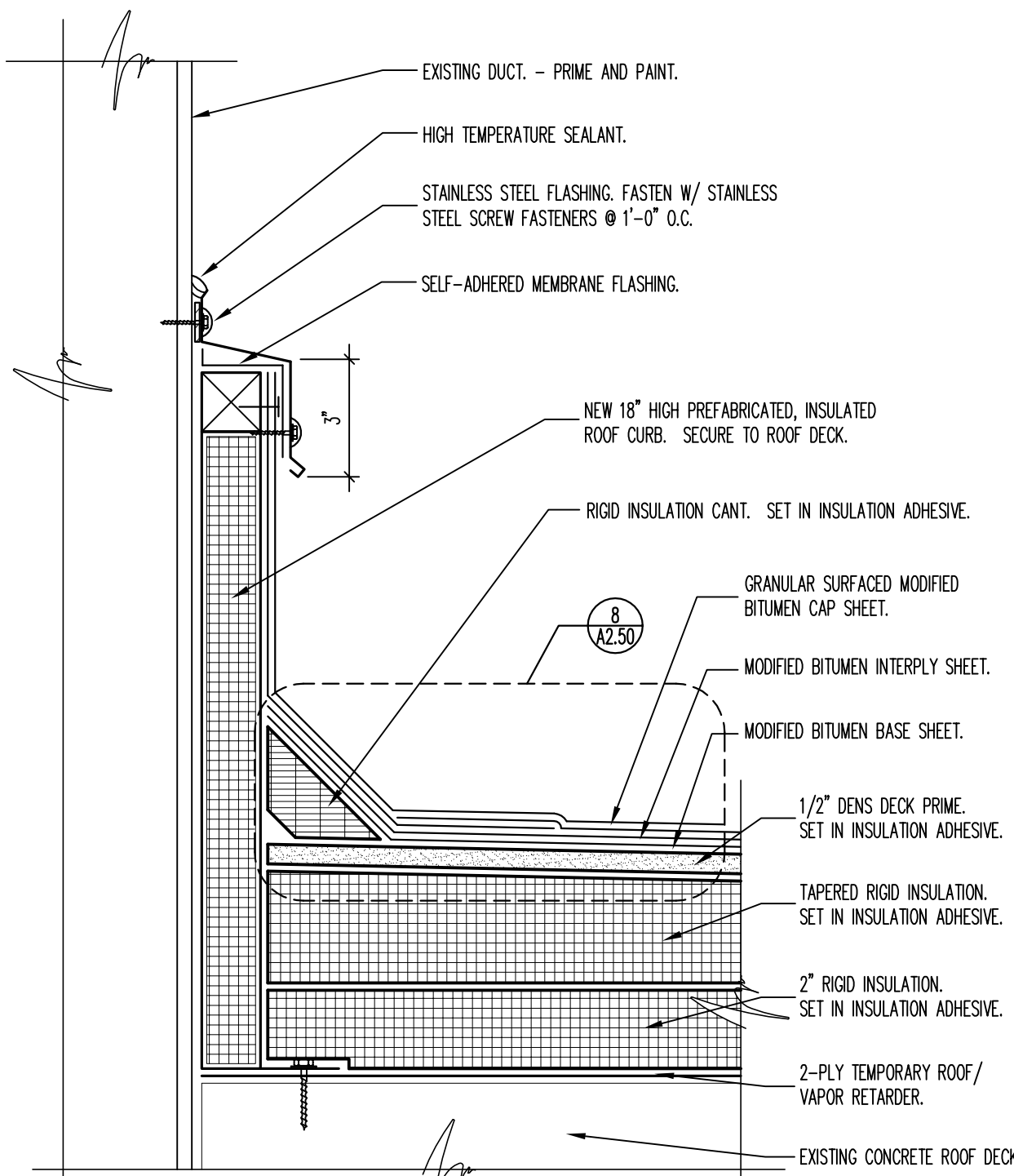


9 WOOD BLOCKING JOINT DETAIL
SCALE: 6\"/>



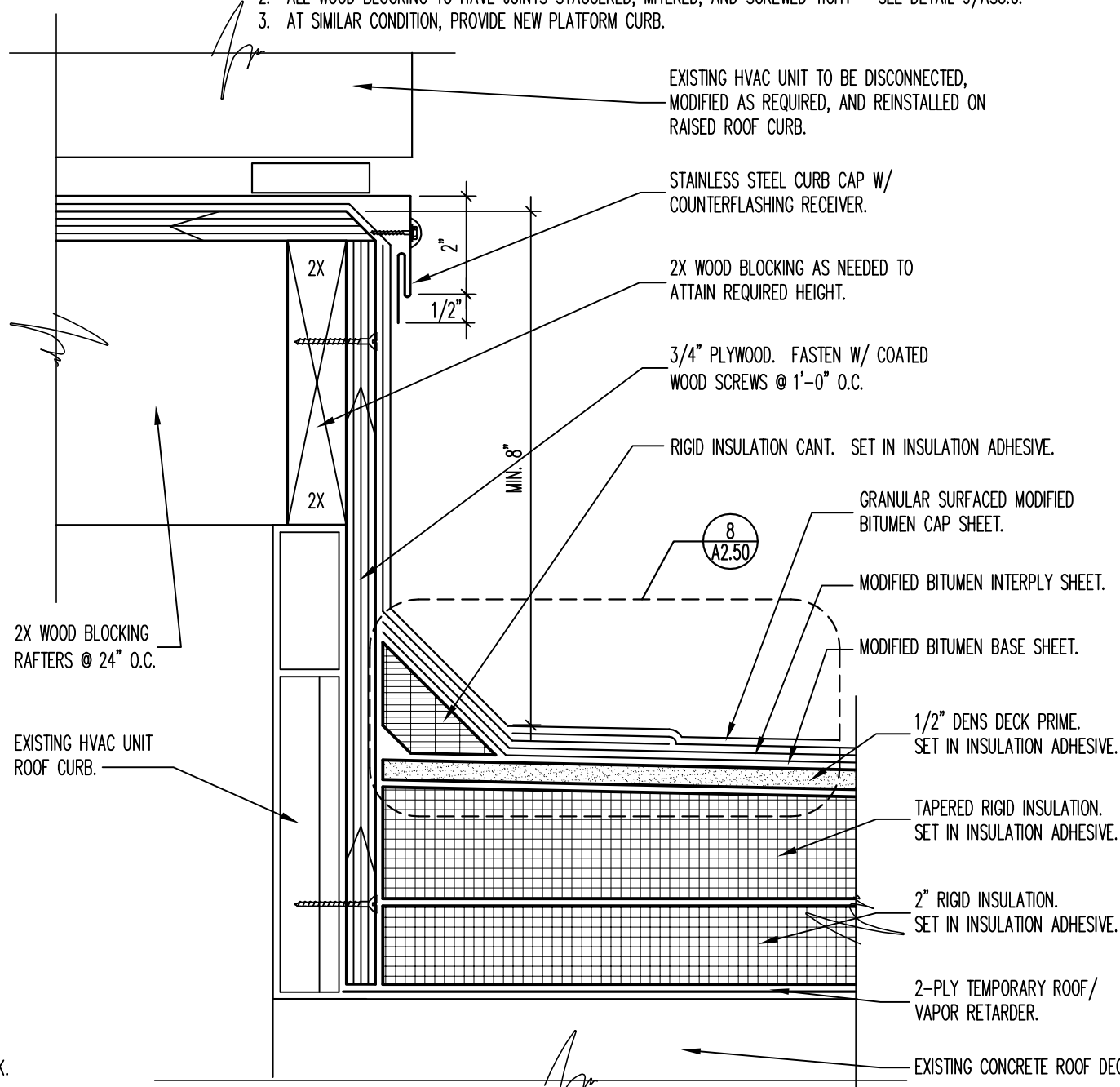
10 COUNTERFLASHING LAP JOINT DETAIL
SCALE: 6\"/>

- NOTES: 1. REMOVE EXISTING ROOFING, FLASHINGS, INSULATION, ROOF CURBS, AND SHEET METAL FROM ROOF.



11 NEW DUCT PENETRATION CURB DETAIL
SCALE: 3\"/>

- NOTES: 1. REMOVE EXISTING ROOFING, FLASHINGS, INSULATION, AND SHEET METAL FROM ROOF.
2. ALL WOOD BLOCKING TO HAVE JOINTS STAGGERED, W/TERED, AND SCREWED TIGHT - SEE DETAIL 9/ASSO.
3. AT SIMILAR CONDITION, PROVIDE NEW PLATFORM CURB.



12 EXISTING ROOF-TOP UNIT CURB EXTENSION DETAIL
SCALE: 3\"/>

CONSULTANTS:



Interstate Roof Systems Consultants, Inc.
1275 Davis Road, Suite 132
Elgin, IL 60123
Tel (847) 695-1460 Fax (847) 695-1462
www.irscinc.com

Design Project Number

537-09-164

ARCHITECT/ENGINEERS:

LEGATARCHITECTS

sustainability performance design

651 West Washington Blvd. - Suite One
Chicago, Illinois 60661-2122
Tel 312.258.9595 Fax 312.258.1555
www.legat.com

Drawing Title

ROOF DETAILS

Approved Project Director

VAPAHCS PLANNING AND ENGINEERING

Project Title

ROOFING REPLACEMENT
PHASE 50

Location

CHICAGO

Date

12/12/12

Checked

TK

Drawn

JC

Construction Project Number

537-12-135

Building Number
BUILDING NO. 1

Drawing Number

A2.50

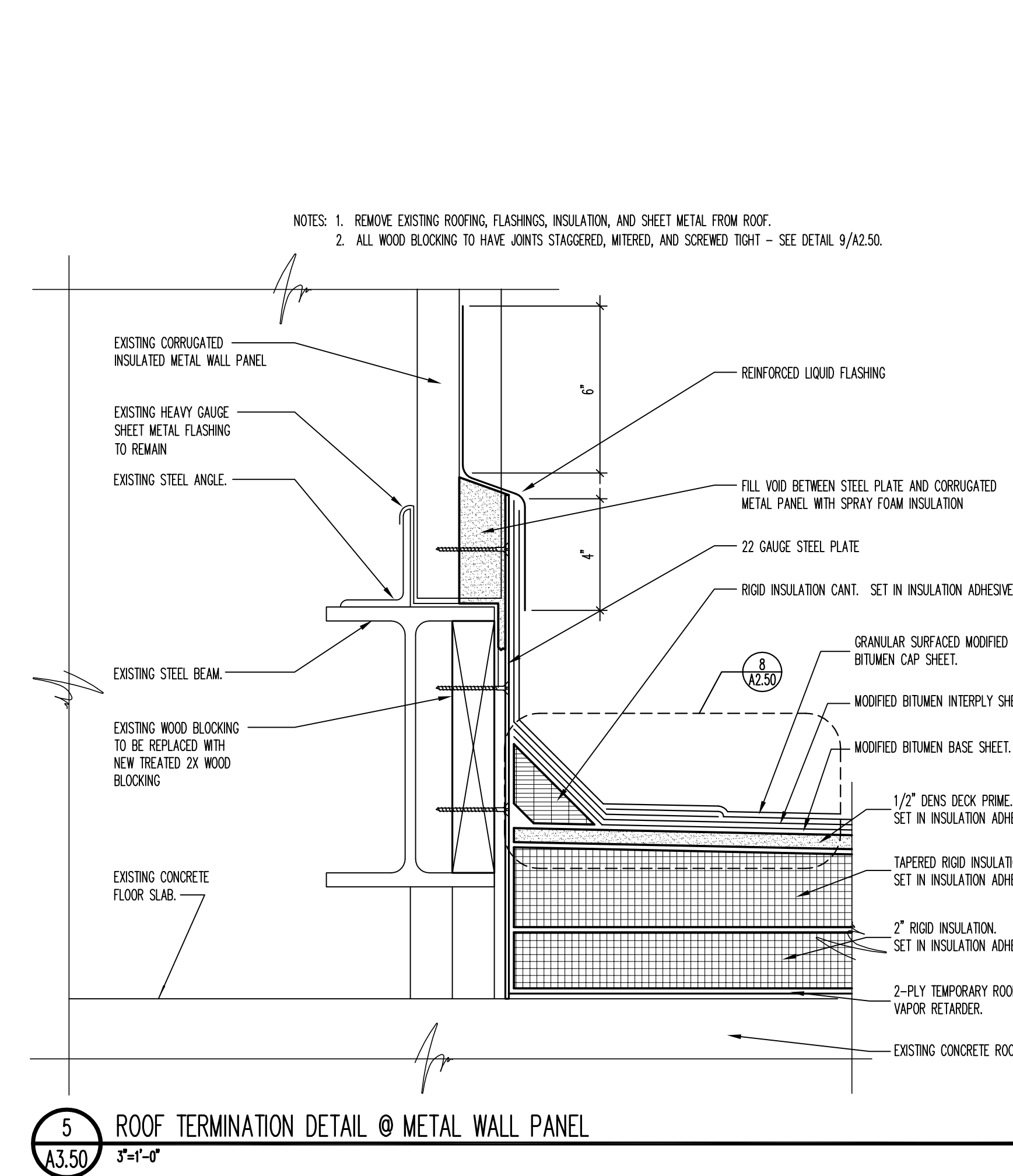
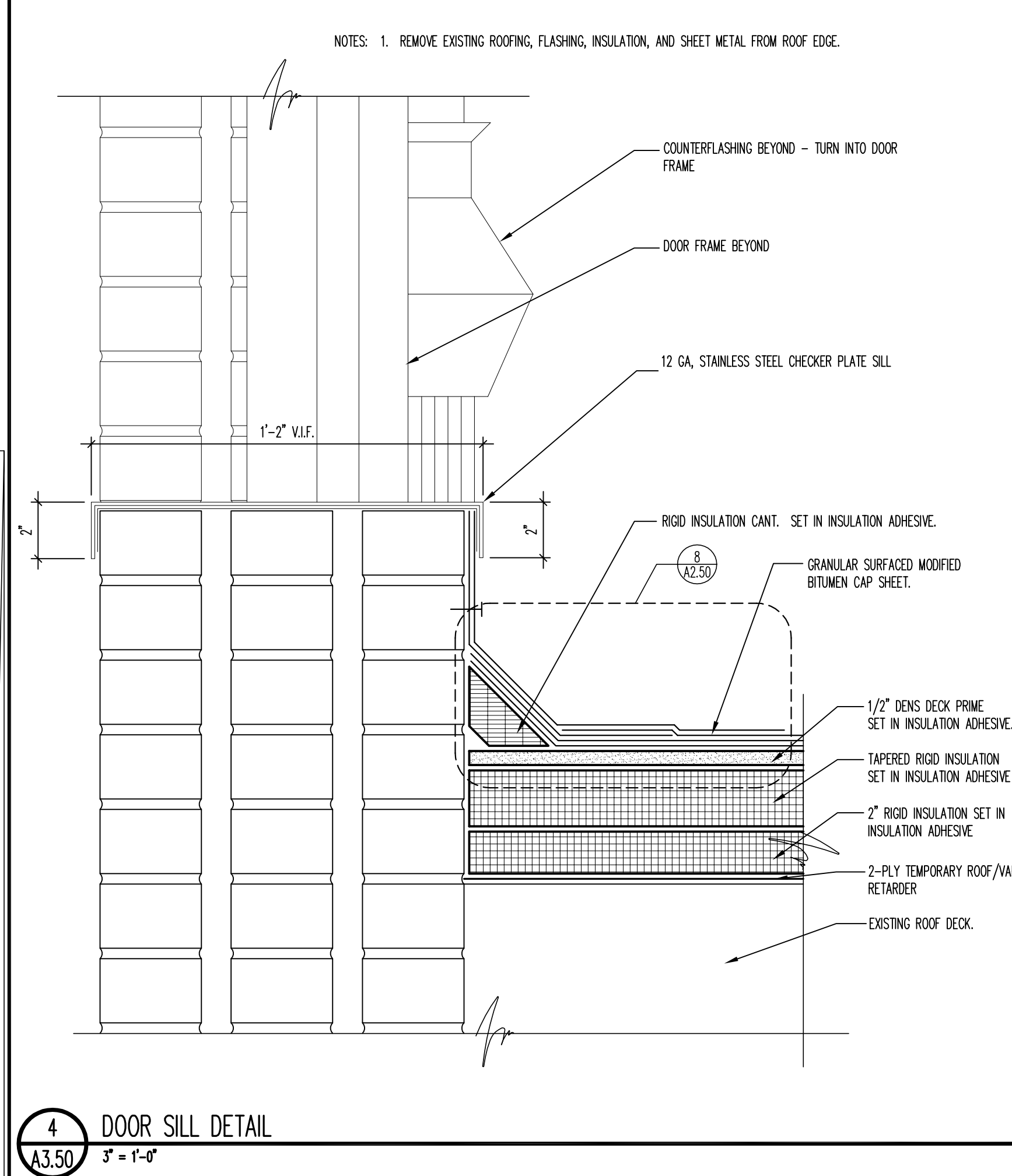
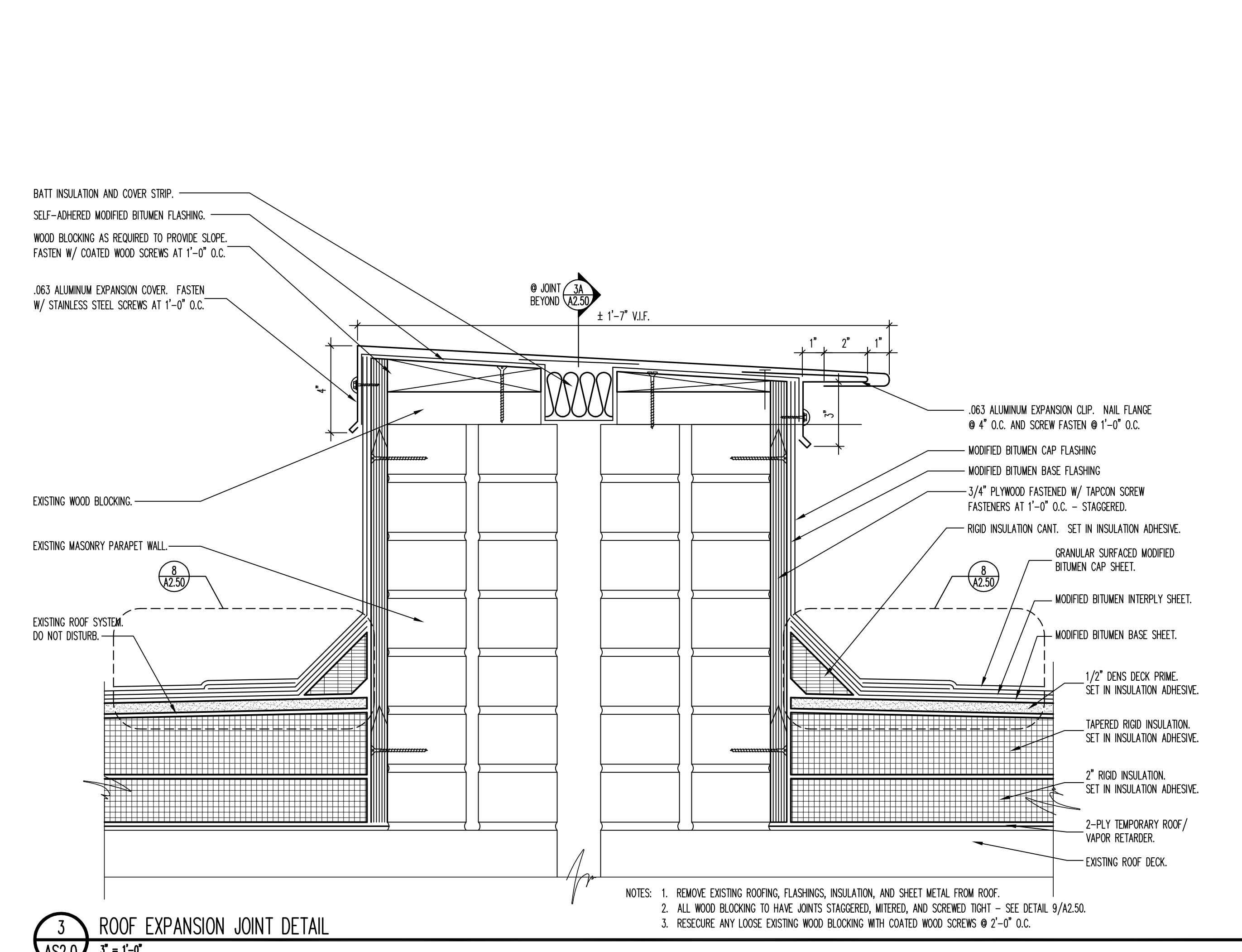
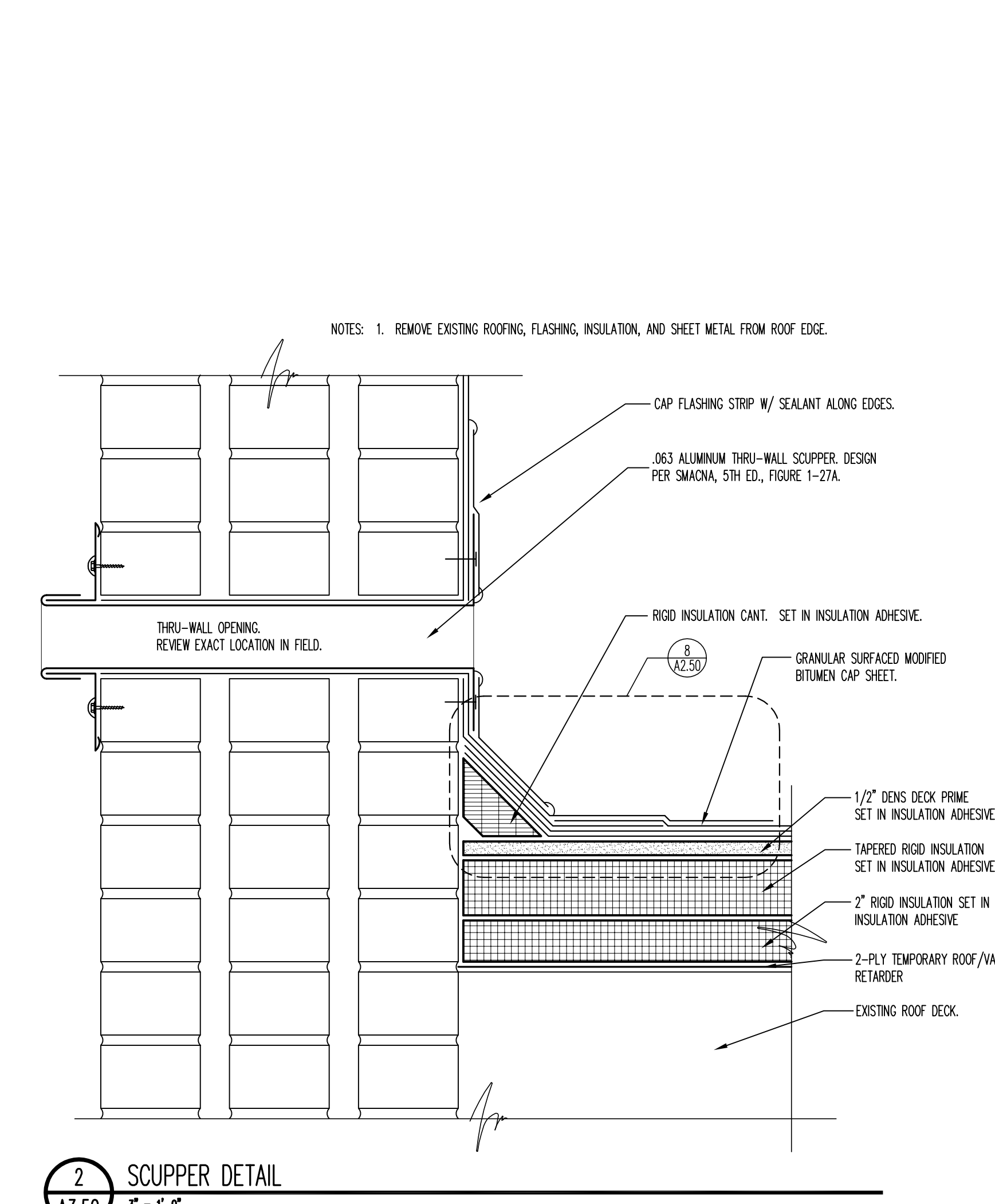
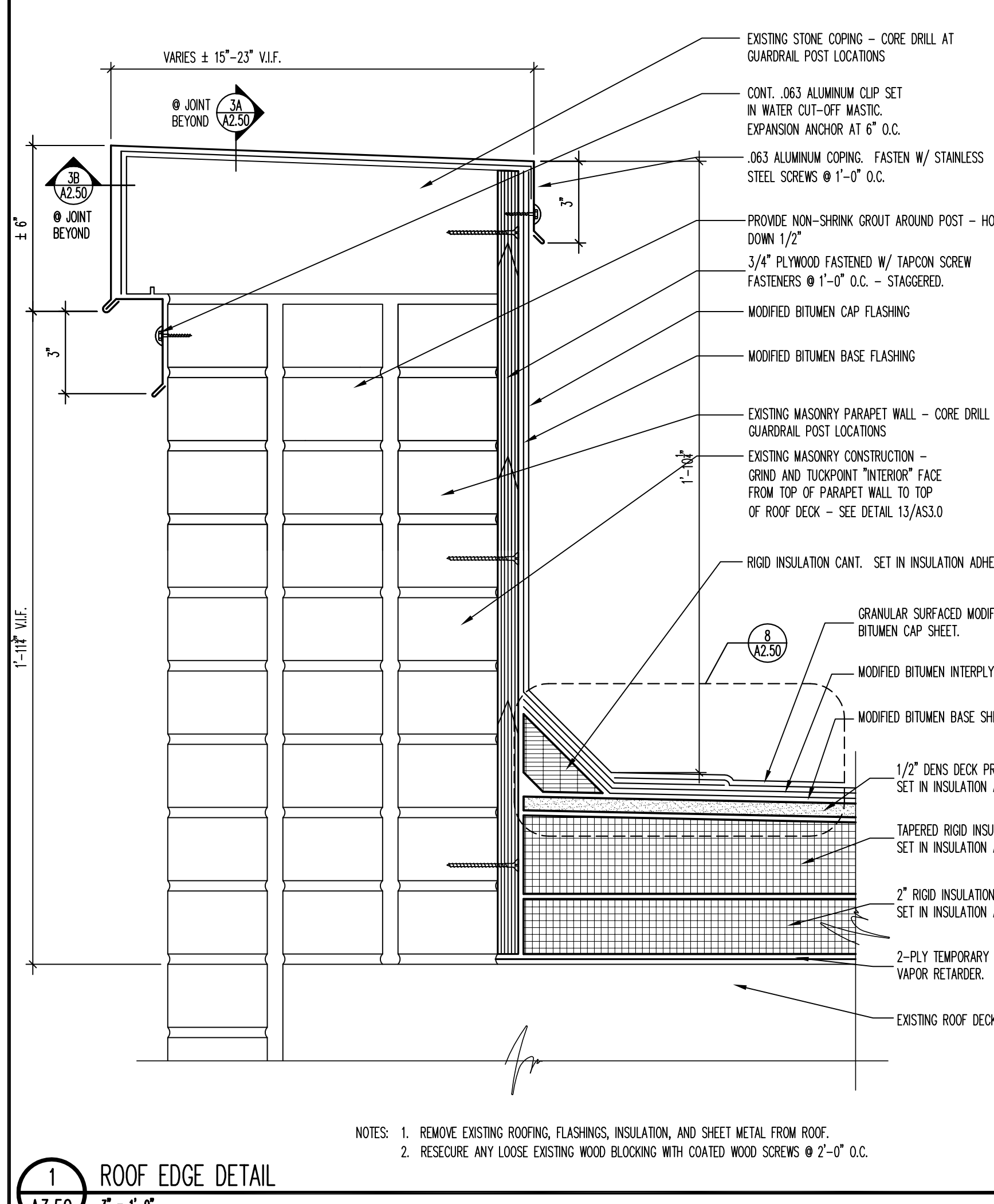
Aug. 18 of 19

Office of
Construction
and Facilities
Management



Department of
Veterans Affairs

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--